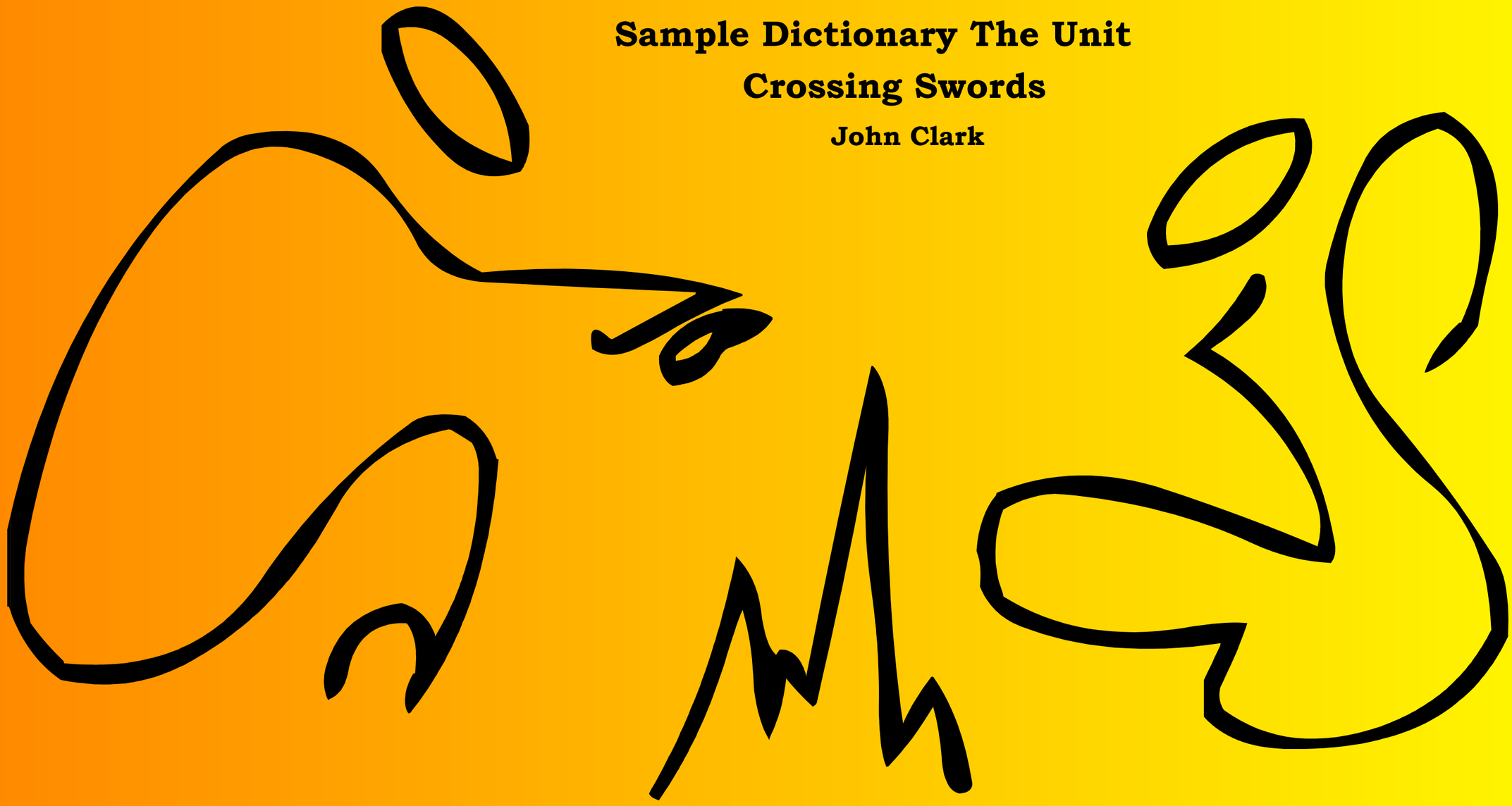
Basic Analog Grammar

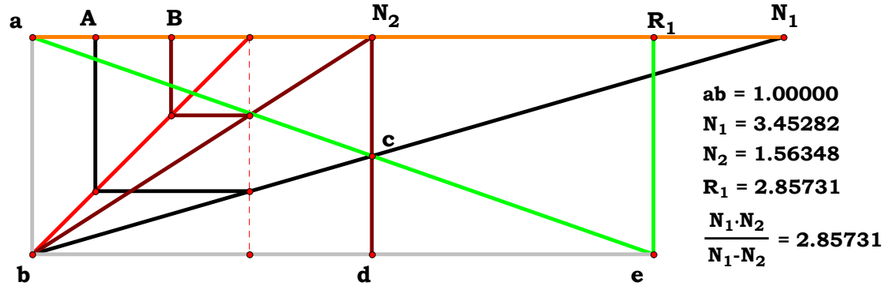
Sample Dictionary The Unit

Crossing Swords

John Clark



John 312



If we establish a simple convention of names, leaving out the fact that this convention imples a arbitrary method of division, we get a simple arithmetic result.

Given.

Unit. $ab := 1 \qquad N_1 := 3.45282 \qquad N_2 := 1.56348$

Descriptions.

$$cd := \frac{N_2}{N_1} \qquad de := \frac{N_2 \cdot cd}{1 - cd}$$

$$be := N_2 + de \qquad R := be$$

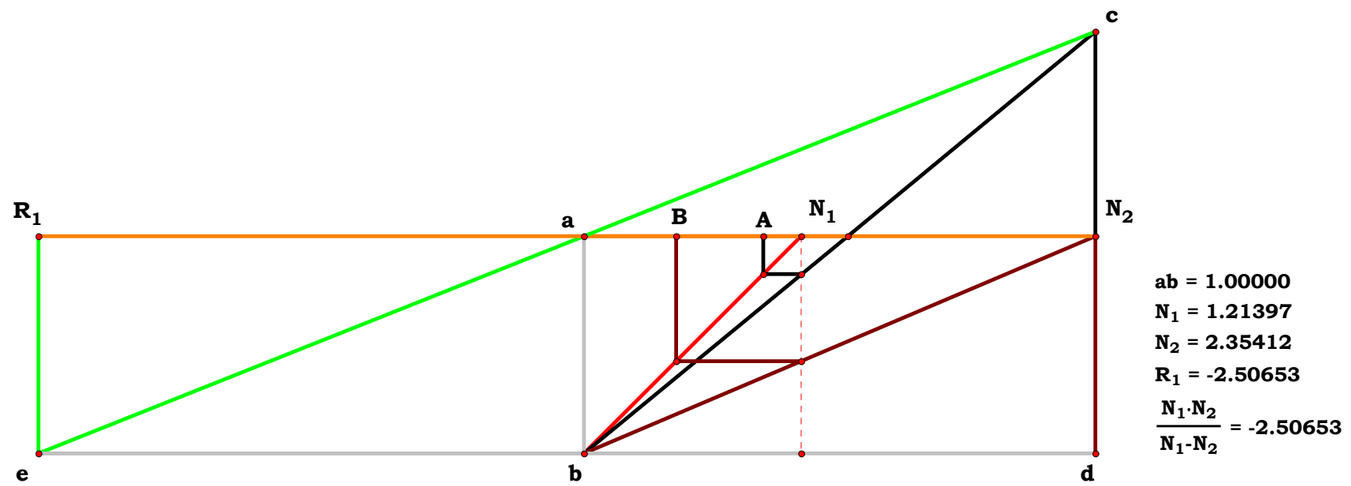
$R = 2.857302$

Definitions.

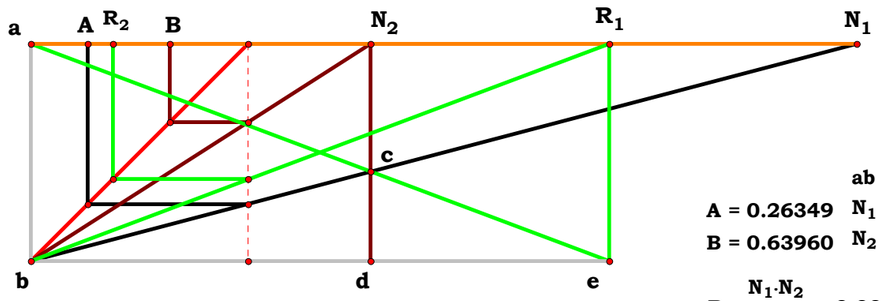
And this result will reduce to this definition.

$$R - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$

But something is wrong. The more complex the equations become, every once in a while, we have to insert logical operators, and we accompany them with mythology. What can be wrong?



1CST1R0B



ab = 1.00000
A = 0.26349 N1 = 3.79518
B = 0.63960 N2 = 1.56348

$R_1 = 2.65883$ $R_2 = 0.37611$

$\frac{N_1 \cdot N_2}{N_1 - N_2} = 2.65883$ B-A = 0.37611

$\frac{1}{B-A} = 2.65883$ $R_2-(B-A) = 0.00000$

$R_1-\frac{N_1 \cdot N_2}{N_1-N_2} = 0.00000$

$R_1-\frac{1}{B-A} = 0.00000$

$\frac{1}{B-A}-\frac{N_1 \cdot N_2}{N_1-N_2} = 0.00000$

Given.

Unit. $ab := 1$

$N_1 := 3.79518 \quad N_2 := 1.56348$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2}$

Descriptions.

$cd := \frac{N_2}{N_1} \quad de := \frac{N_2 \cdot cd}{1 - cd}$

$be := N_2 + de \quad R_1 := be$

$R_1 = 2.65882 \quad R_2 := \frac{1}{R_1}$

Definitions.

We start with our original arithmetic result,

$$R_1 - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0$$

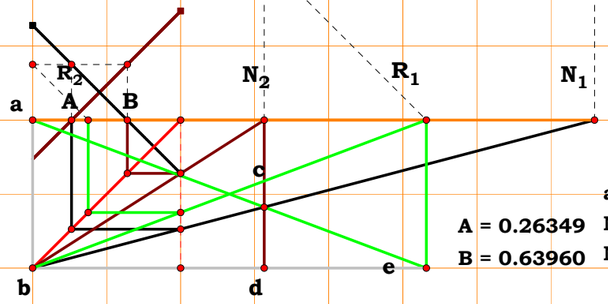
Transform the rest of our givens like such

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$

Making our substitutions we get a completely different equation where any value whatsoever can be plugged into N_u and the arithmetic result will not change, ever. So, in our first plate, we got a particular result, where here, we get a result that is apparently universal for any base system used in math.

$R_1 - \frac{1}{B - A} = 0 \quad R_2 - (B - A) = 0$

If, however, we remember that arithmetic depends upon complete induction and deduction of the unit, then the unit must always be preserved, or we can figure out that every grammar system depends on complete induction and deduction of a unit, or standard thing, we can then figure out how to do the math right.



ab = 1.00000

A = 0.26349 N_1 = 3.79518

B = 0.63960 N_2 = 1.56348

$R_1 = 2.65883$ $\quad R_2 = 0.37611$

$\frac{N_1 \cdot N_2}{N_1 - N_2} = 2.65883$ $\quad B\text{-}A = 0.37611$

$R_2\text{-}(B\text{-}A) = 0.00000$

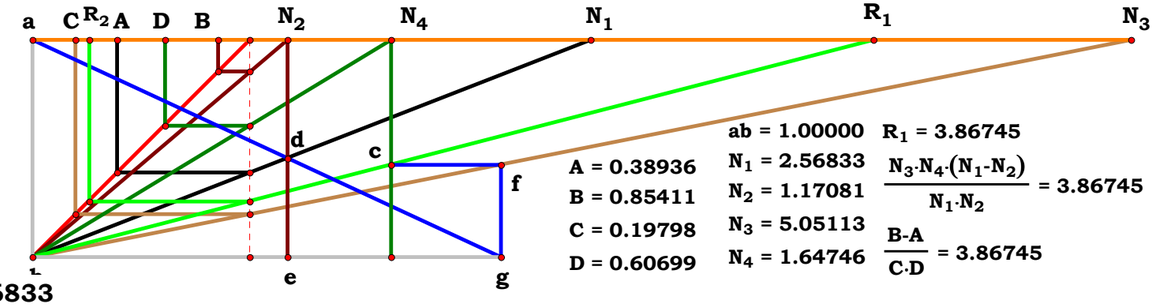
$\frac{1}{B\text{-}A} = 2.65883$

$R_1 - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0.00000$

$R_1 - \frac{1}{B\text{-}A} = 0.00000$

$\frac{1}{B\text{-}A} - \frac{N_1 \cdot N_2}{N_1 - N_2} = 0.00000$

1CST1R1



Descriptions.

Unit. $ab := 1$ **Given.** $N_1 := 2.56833$

$N_2 := 1.17081$ $N_3 := 5.05113$ $N_4 := 1.64746$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$

$BE := N_2$

$bg := \frac{N_1 \cdot N_2}{N_1 - N_2}$ $fg := \frac{bg}{N_3}$

$R_1 := \frac{N_4}{fg}$ $R_1 = 3.867446$ $R_2 := \frac{1}{R_1}$

$ab = 1.00000$ $R_1 = 3.86745$

$A = 0.38936$ $N_1 = 2.56833$ $\frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 3.86745$

$B = 0.85411$ $N_2 = 1.17081$

$C = 0.19798$ $N_3 = 5.05113$ $\frac{B-A}{C \cdot D} = 3.86745$

$D = 0.60699$ $N_4 = 1.64746$

$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$ $R_2 = 0.25857$

$R_1 - \frac{B-A}{C \cdot D} = 0.00000$ $\frac{C \cdot D}{B-A} - R_2 = 0.00000$

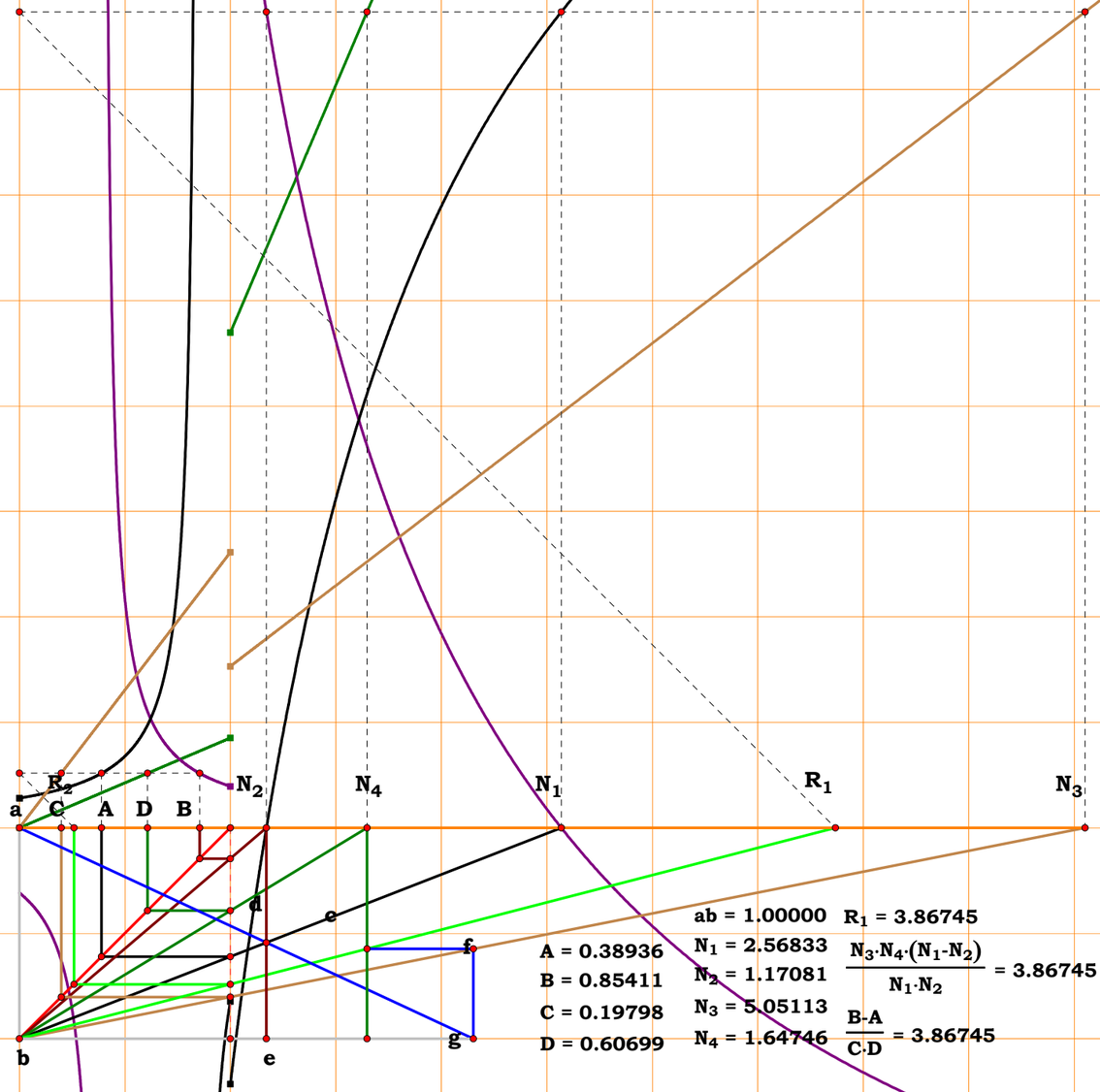
$\frac{B-A}{C \cdot D} - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$

Definitions.

$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$

$R_1 - \frac{(B - A)}{C \cdot D} = 0$ $R_2 - \frac{C \cdot D}{(B - A)} = 0$



$A = 0.38936$
$B = 0.85411$
$C = 0.19798$
$D = 0.60699$

$ab = 1.00000$
$N_1 = 2.56833$
$N_2 = 1.17081$
$N_3 = 5.05113$
$N_4 = 1.64746$

$R_1 = 3.86745$

$$\frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 3.86745$$

$$\frac{B-A}{C \cdot D} = 3.86745$$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$$

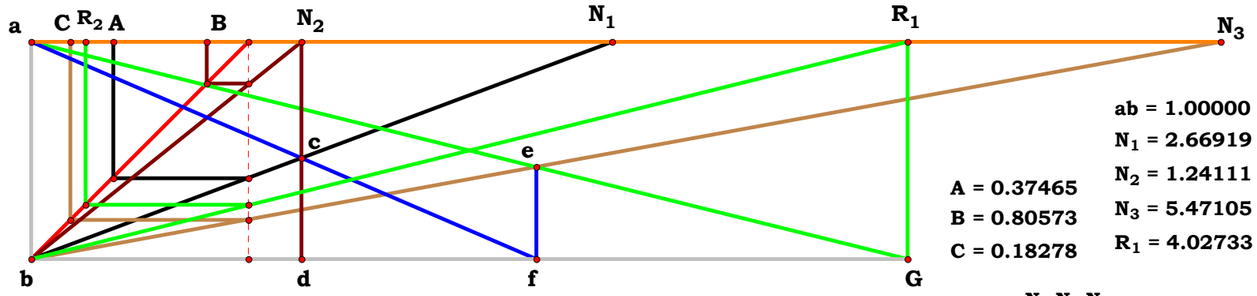
$$R_1 - \frac{B-A}{C \cdot D} = 0.00000$$

$$\frac{B-A}{C \cdot D} - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$$

$R_2 = 0.25857$

$$\frac{C \cdot D}{B-A} - R_2 = 0.00000$$

1CST1R3



ab = 1.00000
N1 = 2.66919
N2 = 1.24111
N3 = 5.47105
R1 = 4.02733

A = 0.37465
B = 0.80573
C = 0.18278

$R_1 = 4.02733$

$\frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 4.02733$

$\frac{1}{B-A-C} = 4.02733$

$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0.00000$

$R_1 - \frac{1}{B-A-C} = 0.00000$

$\frac{1}{B-A-C} - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0.00000$

$R_2 = 0.24830$

B-A-C = 0.24830

$R_2 - (B-A-C) = 0.00000$

Given.

Unit. $ab := 1$ $N_1 := 2.66919$

$N_2 := 1.24111$ $N_3 := 5.47105$

Descriptions.

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

$bf := \frac{N_1 \cdot N_2}{N_1 - N_2}$ $ef := \frac{bf}{N_3}$

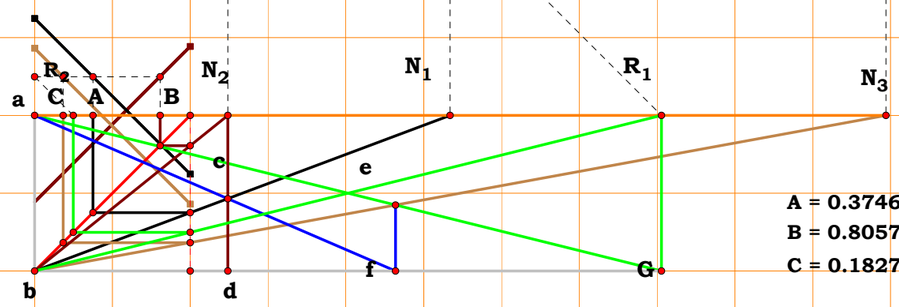
$R_1 := \frac{bf}{1 - ef}$ $R_1 = 4.027312$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{1}{B - A - C} = 0$ $R_2 - (B - A - C) = 0$



A = 0.37465
B = 0.80573
C = 0.18278

ab = 1.00000
N_1 = 2.66919
N_2 = 1.24111
N_3 = 5.47105
R_1 = 4.02733

$R_1 = 4.02733$

$$\frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 4.02733$$

$$\frac{1}{B\text{-}A\text{-}C} = 4.02733$$

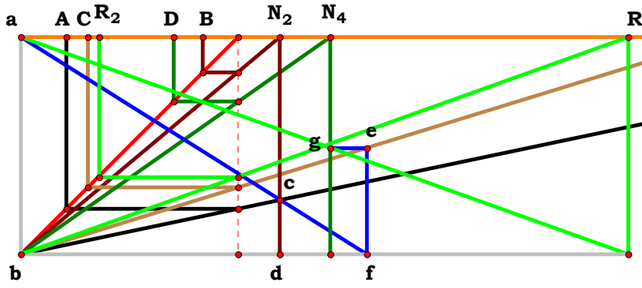
$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{1}{B\text{-}A\text{-}C} = 0.00000$$

$$\frac{1}{B\text{-}A\text{-}C} - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_3 - N_1 \cdot N_2 - N_2 \cdot N_3} = 0.00000$$

R_2 = 0.24830
B-A-C = 0.24830
R_2-(B-A-C) = 0.00000

1CST1R4



ab = 1.00000

A = 0.20973
B = 0.83889
C = 0.30831
D = 0.70262

$N_1 = 4.76800$
$N_2 = 1.19206$
$N_3 = 3.24347$
$N_4 = 1.42325$

$R_1 = 2.79091$

$$\frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 2.79091$$

$$\frac{A-B}{D \cdot ((A-B)+C)} = 2.79091$$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{A-B}{D \cdot ((A-B)+C)} = 0.00000$$

$$\frac{A-B}{D \cdot ((A-B)+C)} - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.35831$

$$\frac{D \cdot ((A-B)+C)}{A-B} = 0.35831$$

$$R_2 - \frac{D \cdot ((A-B)+C)}{A-B} = 0.00000$$

Given.

Unit. $ab := 1$

$N_1 := 4.76800 \quad N_2 := 1.19206$

$N_3 := 3.24347 \quad N_4 := 1.42325$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$cd := \frac{N_2}{N_1} \qquad bf := \frac{N_2}{1 - cd}$$

$$ef := \frac{bf}{N_3} \qquad GN_4 := 1 - ef$$

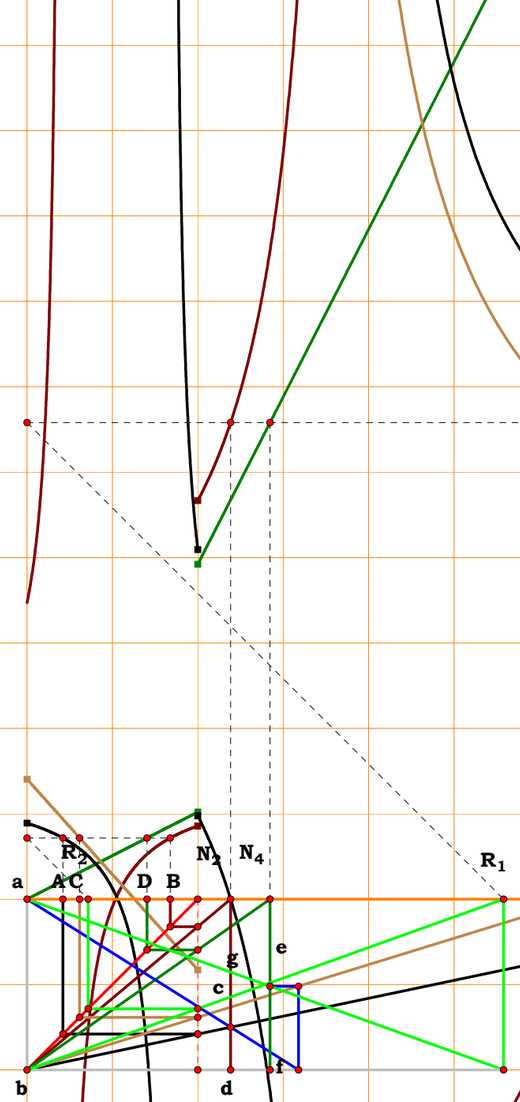
$$R_1 := \frac{N_4}{GN_4} \qquad R_1 = 2.790922 \qquad R_2 := \frac{1}{R_1}$$

Definitions.

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{N_1 \cdot N_2 - N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(A - B)}{D \cdot (A - B + C)} = 0 \qquad R_1 - \frac{A - B}{D \cdot (A - B + C)} = 0$$



ab = 1.00000
N_1 = 4.76800
N_2 = 1.19206
N_3 = 3.24347
N_4 = 1.42325

A = 0.20973
B = 0.83889
C = 0.30831
D = 0.70262

$R_1 = 2.79091$

$$\frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 2.79091$$

$$\frac{A-B}{D \cdot ((A-B)+C)} = 2.79091$$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{A-B}{D \cdot ((A-B)+C)} = 0.00000$$

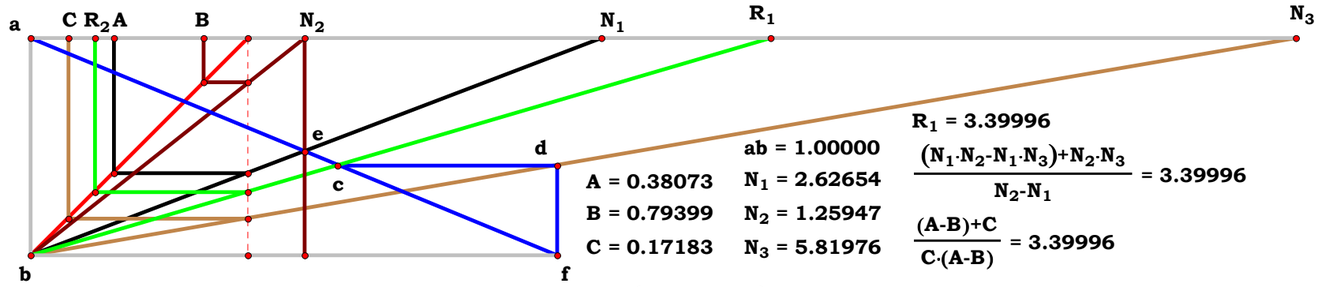
$$\frac{A-B}{D \cdot ((A-B)+C)} - \frac{N_3 \cdot N_4 \cdot (N_2 - N_1)}{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.35831$

$$\frac{D \cdot ((A-B)+C)}{A-B} = 0.35831$$

$$R_2 - \frac{D \cdot ((A-B)+C)}{A-B} = 0.00000$$

1CST1R5



$ab = 1.00000$ $R_1 = 3.39996$

$A = 0.38073$ $N_1 = 2.62654$ $\frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 3.39996$

$B = 0.79399$ $N_2 = 1.25947$ $\frac{(A-B)+C}{C \cdot (A-B)} = 3.39996$

$C = 0.17183$ $N_3 = 5.81976$

$R_1 - \frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 0.00000$ $R_2 = 0.29412$

$R_1 - \frac{(A-B)+C}{C \cdot (A-B)} = 0.00000$ $\frac{C \cdot (A-B)}{(A-B)+C} = 0.29412$

$\frac{(A-B)+C}{C \cdot (A-B)} - \frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 0.00000$ $R_2 - \frac{C \cdot (A-B)}{(A-B)+C} = 0.00000$

Given.

Unit. $ab := 1$ $N_1 := 2.62654$

$N_2 := 1.25947$ $N_3 := 5.81976$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$eN_2 := 1 - \frac{N_2}{N_1}$ $bf := \frac{N_2}{eN_2}$

$df := \frac{bf}{N_3}$ $cd := bf \cdot df$

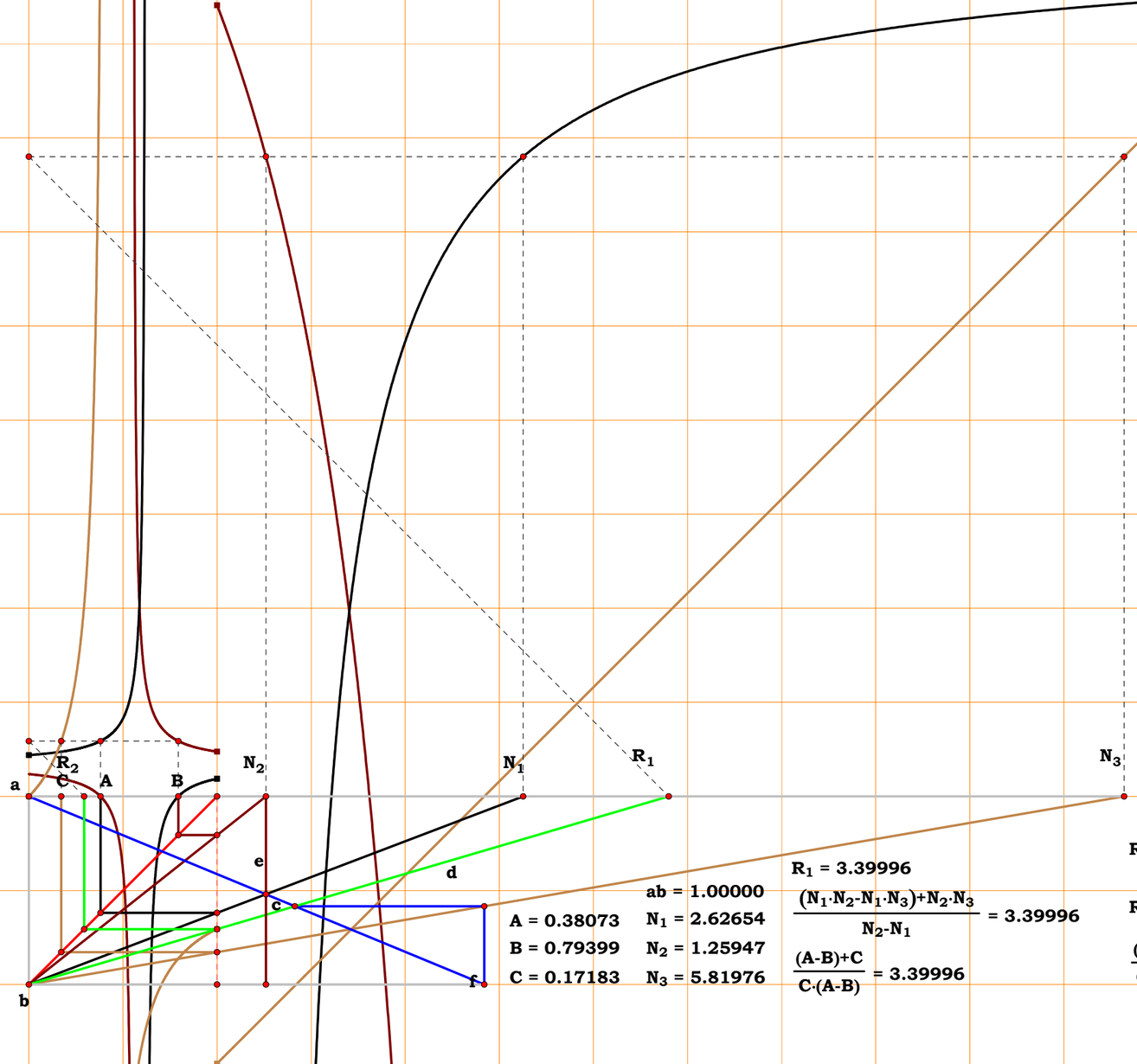
$R_1 := \frac{bf - cd}{df}$ $R_1 = 3.399951$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1 \cdot N_2 - N_1 \cdot N_3 + N_2 \cdot N_3}{N_2 - N_1} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A - B + C}{C \cdot (A - B)} = 0$ $R_2 - \frac{C \cdot (A - B)}{A - B + C} = 0$



$A = 0.38073$
$B = 0.79399$
$C = 0.17183$

$ab = 1.00000$
$N_1 = 2.62654$
$N_2 = 1.25947$
$N_3 = 5.81976$

$R_1 = 3.39996$

$$\frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 3.39996$$

$$\frac{(A-B)+C}{C \cdot (A-B)} = 3.39996$$

$$R_1 - \frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 0.00000$$

$$R_1 - \frac{(A-B)+C}{C \cdot (A-B)} = 0.00000$$

$$\frac{(A-B)+C}{C \cdot (A-B)} - \frac{(N_1 \cdot N_2 - N_1 \cdot N_3) + N_2 \cdot N_3}{N_2 - N_1} = 0.00000$$

$R_2 = 0.29412$

$$\frac{C \cdot (A-B)}{(A-B)+C} = 0.29412$$

$$R_2 - \frac{C \cdot (A-B)}{(A-B)+C} = 0.00000$$

1CST1R7

Given.

Unit. $ab := 1$ $N_1 := 2.09505$

$N_2 := 1.45041$ $N_3 := 1.74995$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$$

Descriptions.

$$cN_2 := 1 - \frac{N_2}{N_1} \qquad R_1 := \frac{N_3}{1 - cN_2}$$

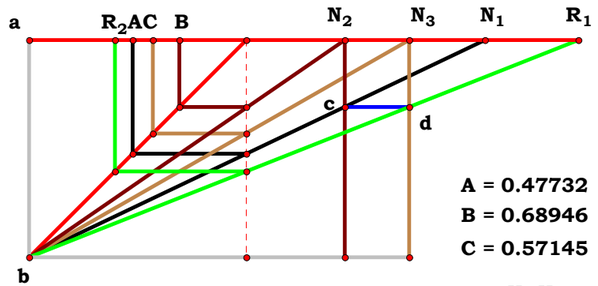
$R_1 = 2.527722$ $\qquad R_2 := \dfrac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_1 \cdot N_3}{N_2} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$R_1 - \frac{B}{A \cdot C} = 0 \qquad R_2 - \frac{A \cdot C}{B} = 0$$



$A = 0.47732$
$B = 0.68946$
$C = 0.57145$

$ab = 1.00000$
$N_1 = 2.09505$
$N_2 = 1.45041$
$N_3 = 1.74995$

$R_1 = 2.52772$

$$\frac{N_1 \cdot N_3}{N_2} = 2.52772$$

$$\frac{B}{A \cdot C} = 2.52772$$

$$R_1 - \frac{N_1 \cdot N_3}{N_2} = 0.00000$$

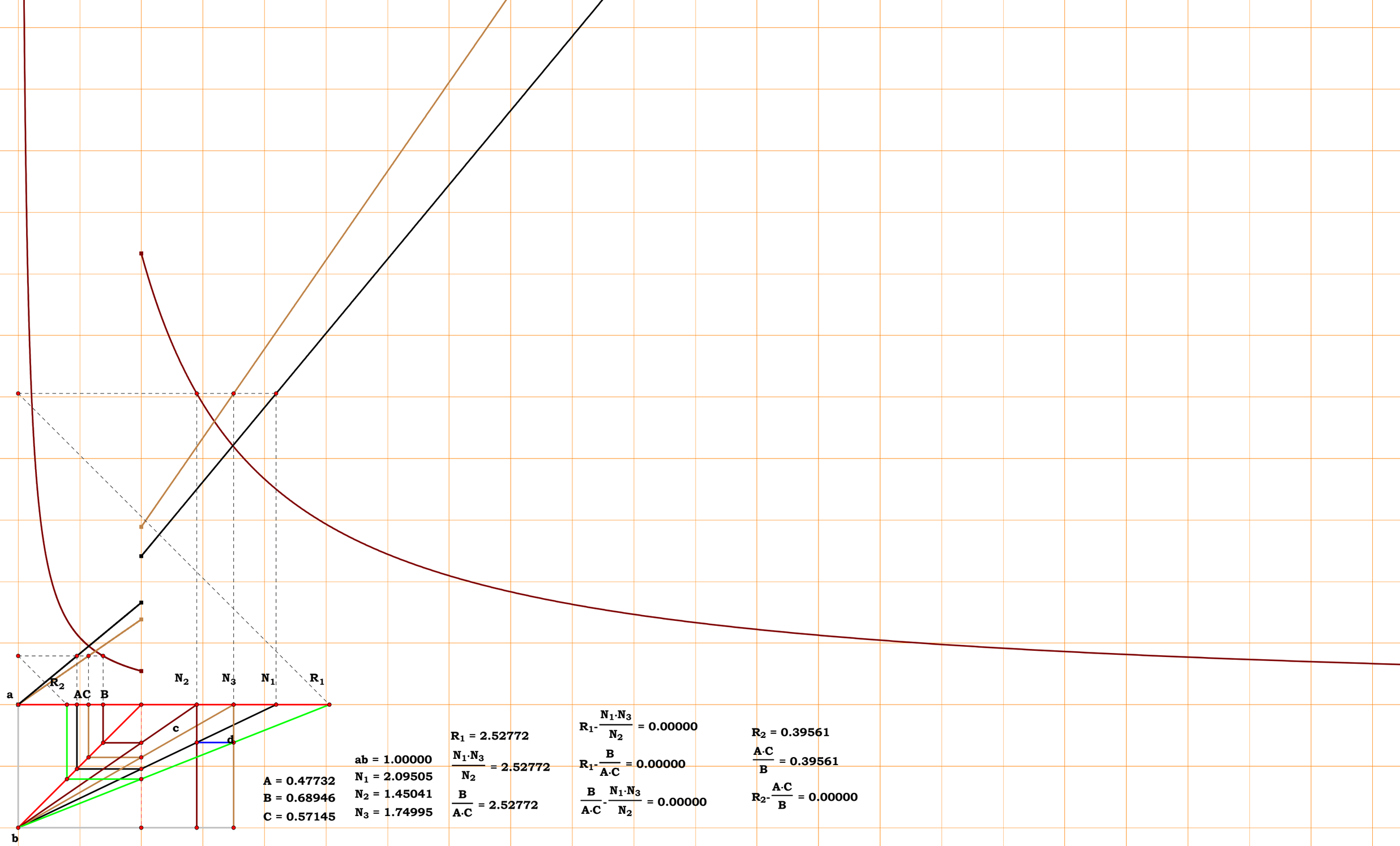
$$R_1 - \frac{B}{A \cdot C} = 0.00000$$

$$\frac{B}{A \cdot C} - \frac{N_1 \cdot N_3}{N_2} = 0.00000$$

$R_2 = 0.39561$

$$\frac{A \cdot C}{B} = 0.39561$$

$$R_2 - \frac{A \cdot C}{B} = 0.00000$$



A = 0.47732
B = 0.68946
C = 0.57145

ab = 1.00000
N_1 = 2.09505
N_2 = 1.45041
N_3 = 1.74995

R_1 = 2.52772

$\frac{N_1 \cdot N_3}{N_2}$ = 2.52772

$\frac{B}{A \cdot C}$ = 2.52772

$R_1 - \frac{N_1 \cdot N_3}{N_2}$ = 0.00000

$R_1 - \frac{B}{A \cdot C}$ = 0.00000

$\frac{B}{A \cdot C} - \frac{N_1 \cdot N_3}{N_2}$ = 0.00000

R_2 = 0.39561

$\frac{A \cdot C}{B}$ = 0.39561

$R_2 - \frac{A \cdot C}{B}$ = 0.00000

1CST1R8

Given.

Unit. $ab := 1$ $N_1 := 2.32078$

$N_2 := 1.31188$ $N_3 := 1.55825$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$$

Descriptions.

$$cN_2 := 1 - \frac{N_2}{N_1} \qquad ae := \frac{N_3}{1 - cN_2}$$

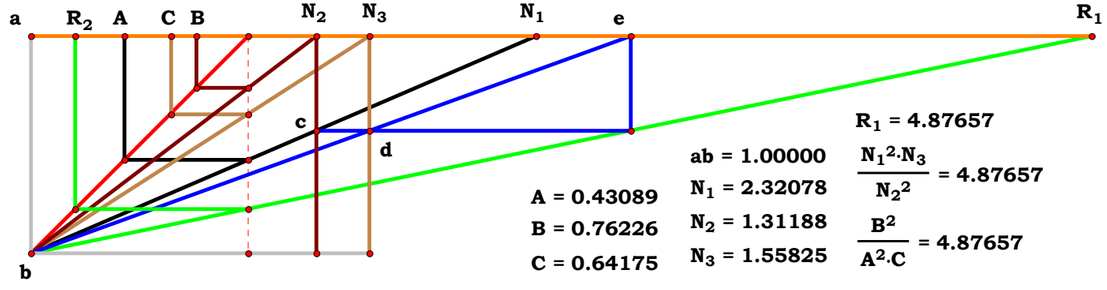
$$R_1 := \frac{ae}{1 - cN_2} \qquad R_1 = 4.876597 \qquad R_2 := \frac{1}{R_1}$$

Definitions.

$$R_1 - \frac{N_1^{\,2} \cdot N_3}{N_2^{\,2}} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$R_1 - \frac{B^2}{A^2 \cdot C} = 0 \qquad R_2 - \frac{A^2 \cdot C}{B^2} = 0$$



$R_1 = 4.87657$

$ab = 1.00000$ $\quad \frac{N_1^{\,2} \cdot N_3}{N_2^{\,2}} = 4.87657$

$A = 0.43089$ $\quad N_1 = 2.32078$

$B = 0.76226$ $\quad N_2 = 1.31188$ $\quad \frac{B^2}{A^2 \cdot C} = 4.87657$

$C = 0.64175$ $\quad N_3 = 1.55825$

$$R_1 - \frac{N_1^{\,2} \cdot N_3}{N_2^{\,2}} = 0.00000$$

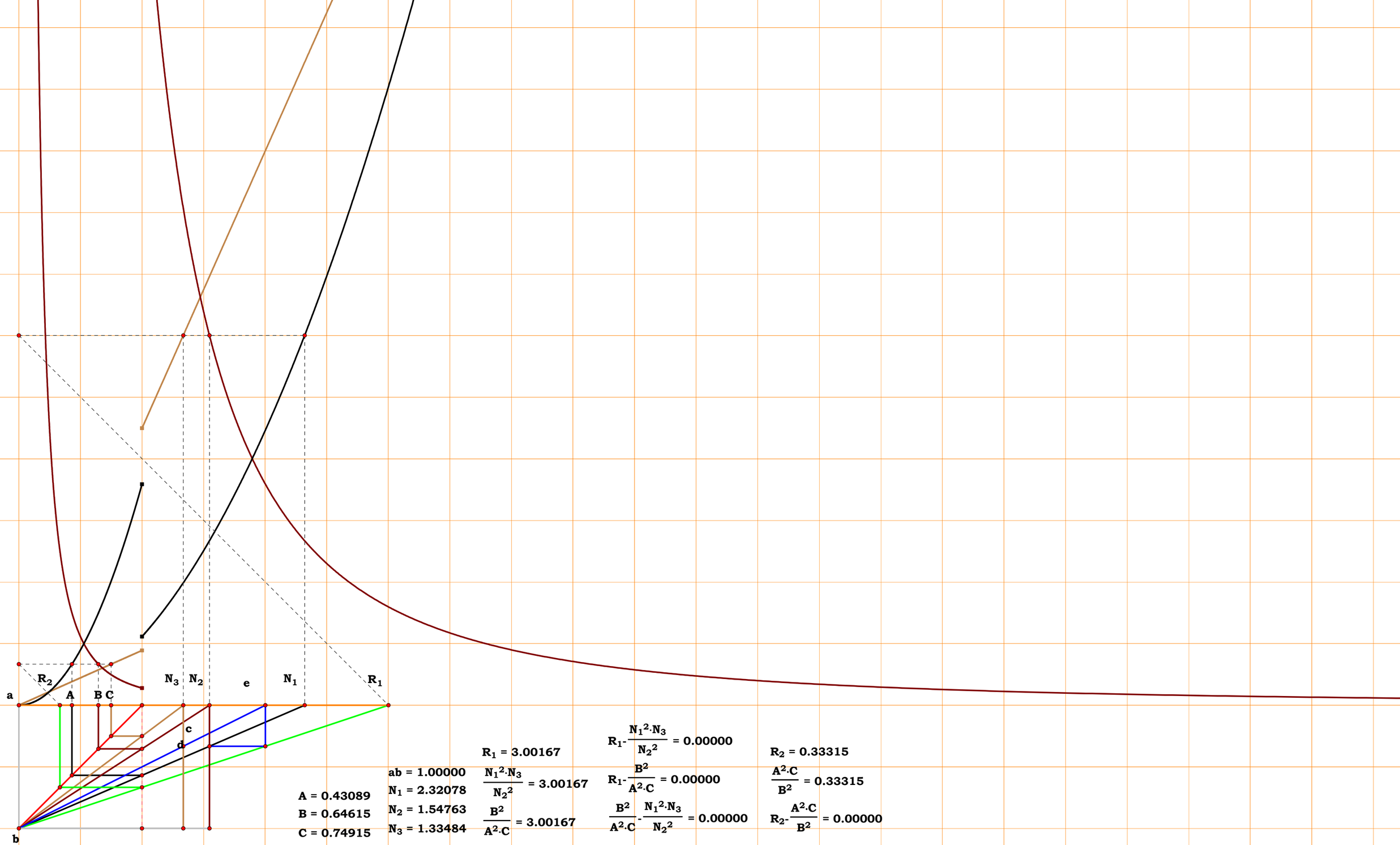
$$R_1 - \frac{B^2}{A^2 \cdot C} = 0.00000$$

$$\frac{B^2}{A^2 \cdot C} - \frac{N_1^{\,2} \cdot N_3}{N_2^{\,2}} = 0.00000$$

$R_2 = 0.20506$

$$\frac{A^2 \cdot C}{B^2} = 0.20506$$

$$R_2 - \frac{A^2 \cdot C}{B^2} = 0.00000$$



A = 0.43089
B = 0.64615
C = 0.74915

ab = 1.00000
N_1 = 2.32078
N_2 = 1.54763
N_3 = 1.33484

R_1 = 3.00167

$\frac{N_1^2 \cdot N_3}{N_2^2}$ = 3.00167

$\frac{B^2}{A^2 \cdot C}$ = 3.00167

$R_1 - \frac{N_1^2 \cdot N_3}{N_2^2}$ = 0.00000

$R_1 - \frac{B^2}{A^2 \cdot C}$ = 0.00000

$\frac{B^2}{A^2 \cdot C} - \frac{N_1^2 \cdot N_3}{N_2^2}$ = 0.00000

R_2 = 0.33315

$\frac{A^2 \cdot C}{B^2}$ = 0.33315

$R_2 - \frac{A^2 \cdot C}{B^2}$ = 0.00000

1CST1R9

Given.

Unit. $ab := 1$ $N_1 := 4.91650$

$N_2 := 1.52772$ $N_3 := 2.02884$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$cN_2 := 1 - \frac{N_2}{N_1}$ $R_1 := \frac{N_3}{cN_2}$

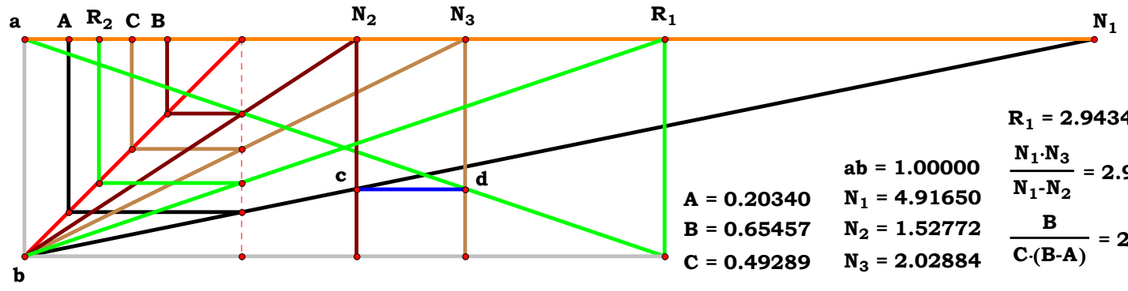
$R_1 = 2.943476$ $R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{B}{C \cdot (B - A)} = 0$ $R_2 - \frac{C \cdot (B - A)}{B} = 0$



$A = 0.20340$ $ab = 1.00000$ $R_1 = 2.94348$

$B = 0.65457$ $N_1 = 4.91650$ $\frac{N_1 \cdot N_3}{N_1 - N_2} = 2.94348$

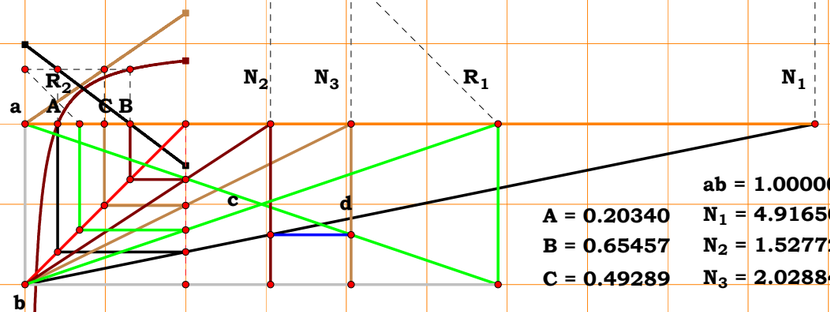
$C = 0.49289$ $N_2 = 1.52772$ $\frac{B}{C \cdot (B-A)} = 2.94348$

$N_3 = 2.02884$

$R_1 - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0.00000$ $R_2 = 0.33973$

$R_1 - \frac{B}{C \cdot (B-A)} = 0.00000$ $\frac{C \cdot (B-A)}{B} = 0.33973$

$\frac{B}{C \cdot (B-A)} - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0.00000$ $R_2 - \frac{C \cdot (B-A)}{B} = 0.00000$



$A = 0.20340$ $B = 0.65457$ $C = 0.49289$

$ab = 1.00000$ $N_1 = 4.91650$ $N_2 = 1.52772$ $N_3 = 2.02884$

$R_1 = 2.94348$

$\frac{N_1 \cdot N_3}{N_1 - N_2} = 2.94348$

$\frac{B}{C \cdot (B-A)} = 2.94348$

$R_1 - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0.00000$

$R_1 - \frac{B}{C \cdot (B-A)} = 0.00000$

$\frac{B}{C \cdot (B-A)} - \frac{N_1 \cdot N_3}{N_1 - N_2} = 0.00000$

$R_2 = 0.33973$

$\frac{C \cdot (B-A)}{B} = 0.33973$

$R_2 - \frac{C \cdot (B-A)}{B} = 0.00000$

1CST1R10

Given.

Unit. $ab := 1$ $N_1 := 3.19161$

$N_2 := 1.68348$ $N_3 := 1.24184$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$cN_2 := 1 - \frac{N_2}{N_1}$ $ad := \frac{N_3}{1 - cN_2}$

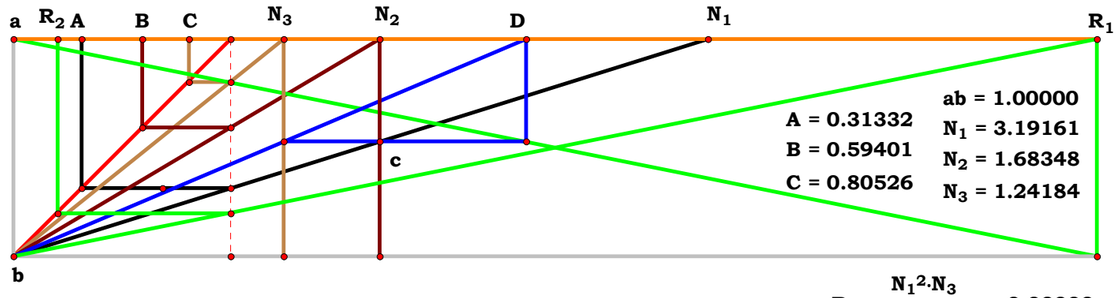
$R_1 := \frac{ad}{cN_2}$ $R_1 = 4.982399$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{B^2}{C \cdot (A \cdot B - A^2)} = 0$ $R_2 - \frac{C \cdot (A \cdot B - A^2)}{B^2}$



A = 0.31332
B = 0.59401
C = 0.80526

ab = 1.00000
N1 = 3.19161
N2 = 1.68348
N3 = 1.24184

$R_1 = 4.98241$

$\frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 4.98241$

$\frac{B^2}{C \cdot (A \cdot B - A^2)} = 4.98241$

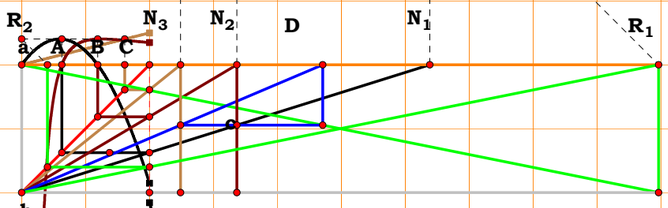
$R_1 - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0.00000$

$R_1 - \frac{B^2}{C \cdot (A \cdot B - A^2)} = 0.00000$

$\frac{B^2}{C \cdot (A \cdot B - A^2)} - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0.00000$

$R_2 = 0.20071$

$\frac{C \cdot (A \cdot B - A^2)}{B^2} = 0.20071$



$A = 0.31332$ $ab = 1.00000$

$B = 0.59401$ $N_1 = 3.19161$

$C = 0.80526$ $N_2 = 1.68348$

$N_3 = 1.24184$

$R_1 = 4.98241$

$$\frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 4.98241$$

$$\frac{B^2}{C \cdot (A \cdot B - A^2)} = 4.98241$$

$$R_1 - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0.00000$$

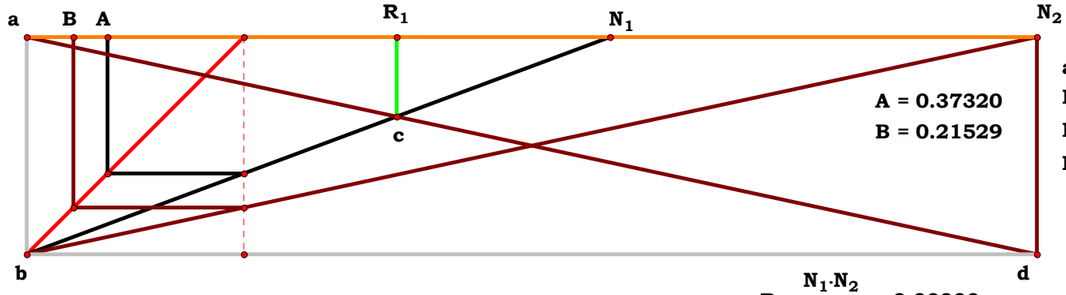
$$R_1 - \frac{B^2}{C \cdot (A \cdot B - A^2)} = 0.00000$$

$$\frac{B^2}{C \cdot (A \cdot B - A^2)} - \frac{N_1^2 \cdot N_3}{N_2 \cdot (N_1 - N_2)} = 0.00000$$

$R_2 = 0.20071$

$$\frac{C \cdot (A \cdot B - A^2)}{B^2} = 0.20071$$

1CST2R0



A = 0.37320
B = 0.21529

ab = 1.00000
N_1 = 2.67952
N_2 = 4.64487
R_1 = 1.69926

$R_1 = 1.69926$

$\frac{N_1 \cdot N_2}{N_1+N_2} = 1.69926$

$\frac{1}{A+B} = 1.69926$

Given.

Unit. $ab := 1$

$N_1 := 2.67952 \quad N_2 := 4.64497$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2}$

Descriptions.

$bd := N_2 \quad R_1 := \frac{bd \cdot N_1}{bd + N_1}$

$R_1 = 1.699271$

$R_1 - \frac{N_1 \cdot N_2}{N_1+N_2} = 0.00000$

$R_1 - \frac{1}{A+B} = 0.00000$

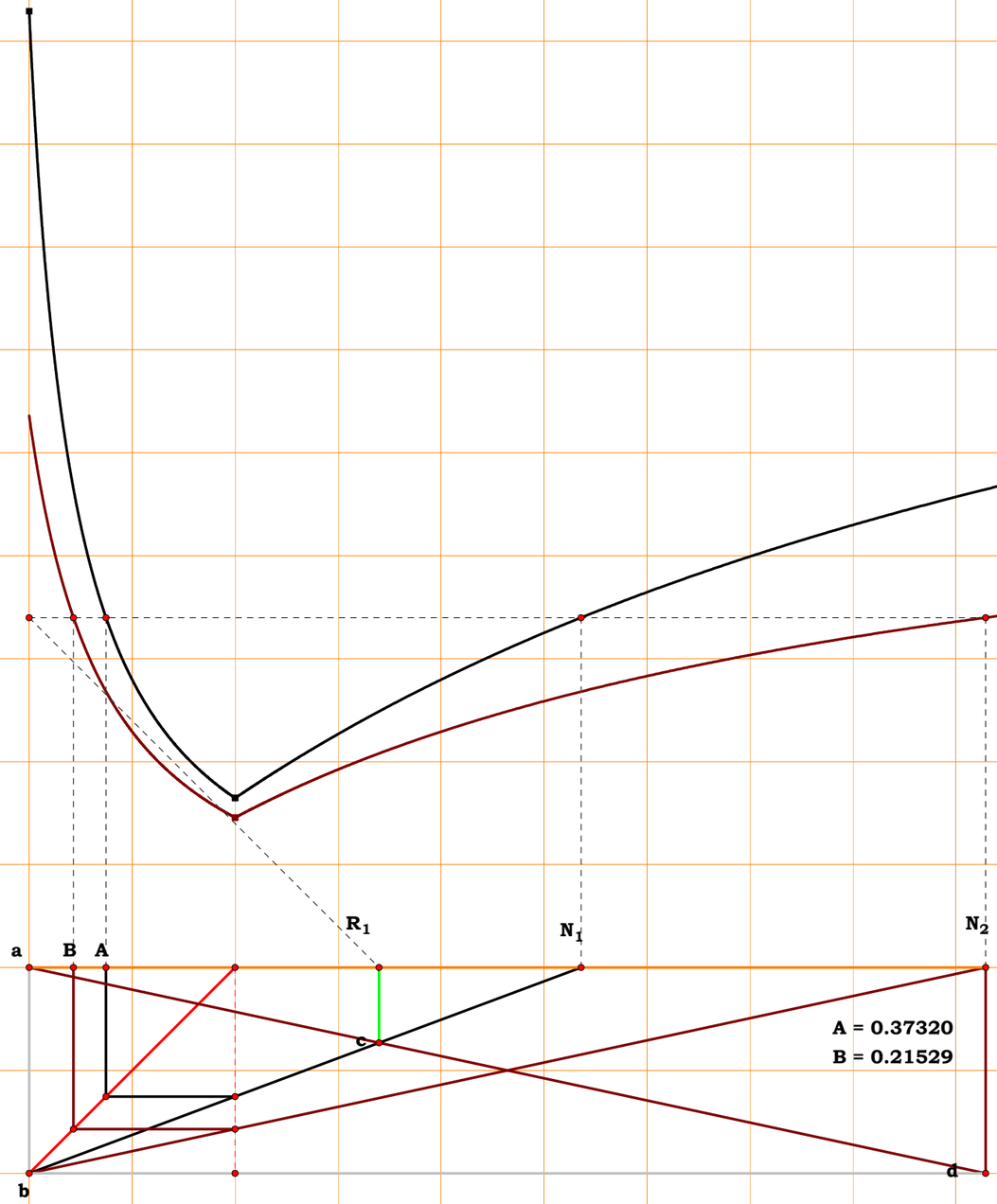
$\frac{1}{A+B} - \frac{N_1 \cdot N_2}{N_1+N_2} = 0.00000$

Definitions.

$R_1 - \frac{N_1 \cdot N_2}{N_1 + N_2} = 0$

$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$

$R_1 - \frac{1}{A+B} = 0$



A = 0.37320
B = 0.21529

ab = 1.00000
N_1 = 2.67952
N_2 = 4.64487
R_1 = 1.69926

$R_1 = 1.69926$

$\frac{N_1 \cdot N_2}{N_1+N_2} = 1.69926$

$\frac{1}{A+B} = 1.69926$

$R_1 - \frac{N_1 \cdot N_2}{N_1+N_2} = 0.00000$

$R_1 - \frac{1}{A+B} = 0.00000$

$\frac{1}{A+B} - \frac{N_1 \cdot N_2}{N_1+N_2} = 0.00000$

1CST2R1

Given.

Unit. $ab := 1$ $N_1 := 2.70683$

$N_2 := 3.68191$ $N_3 := 5.30802$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$$

Descriptions.

$$ad := \frac{N_1 \cdot N_2}{N_1 + N_2} \qquad R_1 := \frac{ad \cdot N_3}{ad + N_3}$$

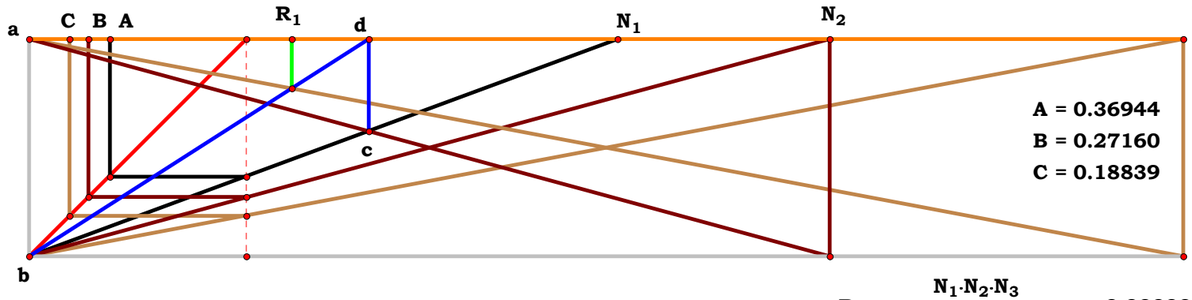
$R_1 = 1.20565$

Definitions.

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0$$

$$R_1 - \frac{1}{A + B + C} = 0$$



A = 0.36944
B = 0.27160
C = 0.18839

ab = 1.00000
N_1 = 2.70683
N_2 = 3.68191
N_3 = 5.30802

$R_1 = 1.20565$

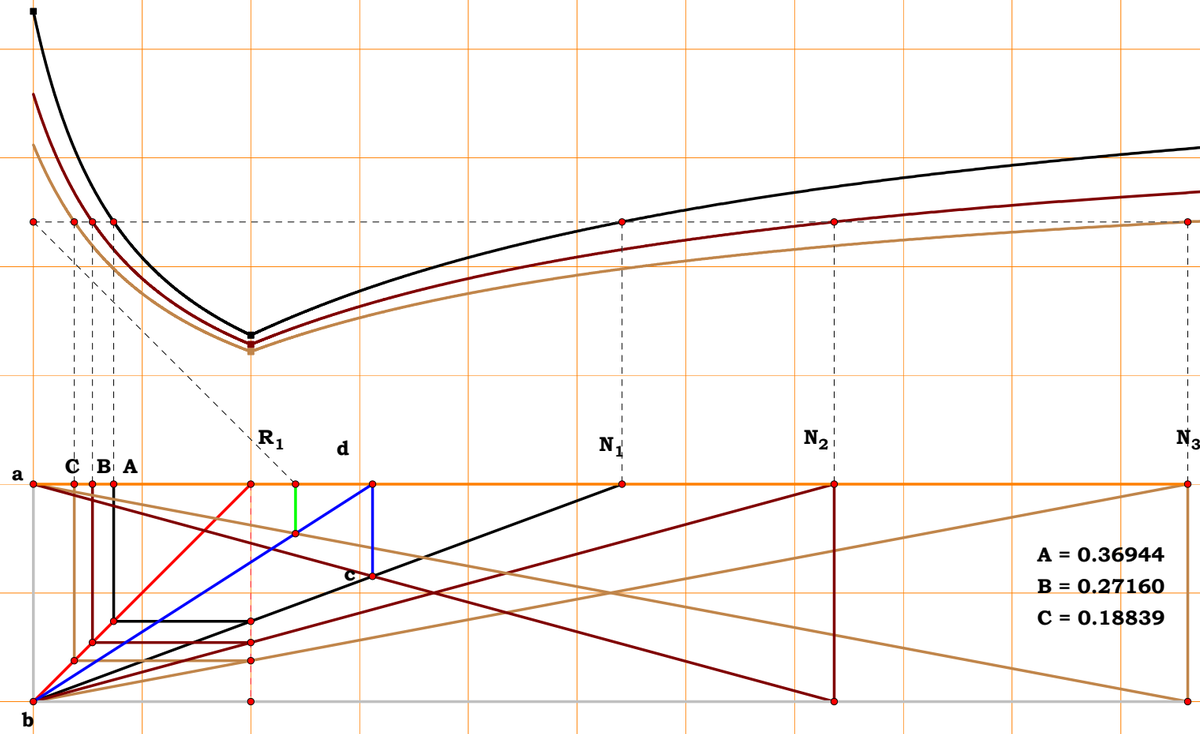
$$\frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 1.20565$$

$$\frac{1}{A+B+C} = 1.20565$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{1}{A+B+C} = 0.00000$$

$$\frac{1}{A+B+C} - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0.00000$$



ab = 1.00000

N_1 = 2.70683

N_2 = 3.68191

N_3 = 5.30802

A = 0.36944

B = 0.27160

C = 0.18839

$R_1 = 1.20565$

$$\frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 1.20565$$

$$\frac{1}{A+B+C} = 1.20565$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{1}{A+B+C} = 0.00000$$

$$\frac{1}{A+B+C} - \frac{N_1 \cdot N_2 \cdot N_3}{N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3} = 0.00000$$

1CST2R2

Given.

Unit. $ab := 1$ $N_1 := 3.51337$

$N_2 := 2.49592$ $N_3 := 4.77660$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$ae := \frac{N_1 \cdot N_2}{N_1 + N_2}$ $ac := \frac{ae \cdot N_3}{ae + N_3}$

$cd := \frac{ac}{N_3}$ $R_1 := \frac{ae}{1 - cd}$

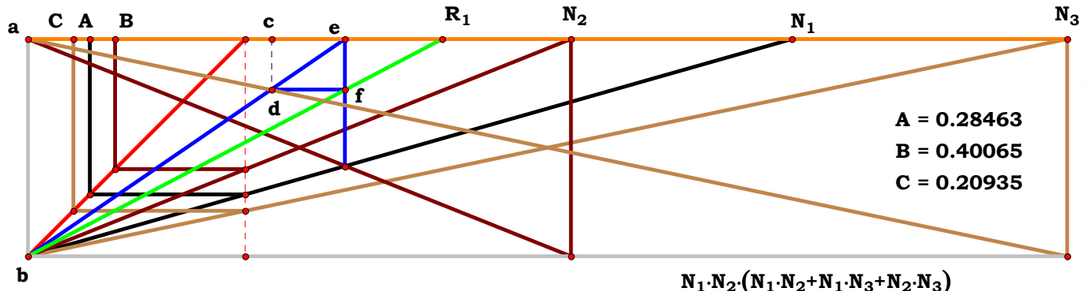
$R_1 = 1.90506$

Definitions.

$$R_1 - \frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$$R_1 - \frac{(A + B + C)}{(A + B)^2} = 0$$



A = 0.28463
B = 0.40065
C = 0.20935

ab = 1.00000
N_1 = 3.51337
N_2 = 2.49592
N_3 = 4.77660

$R_1 = 1.90506$

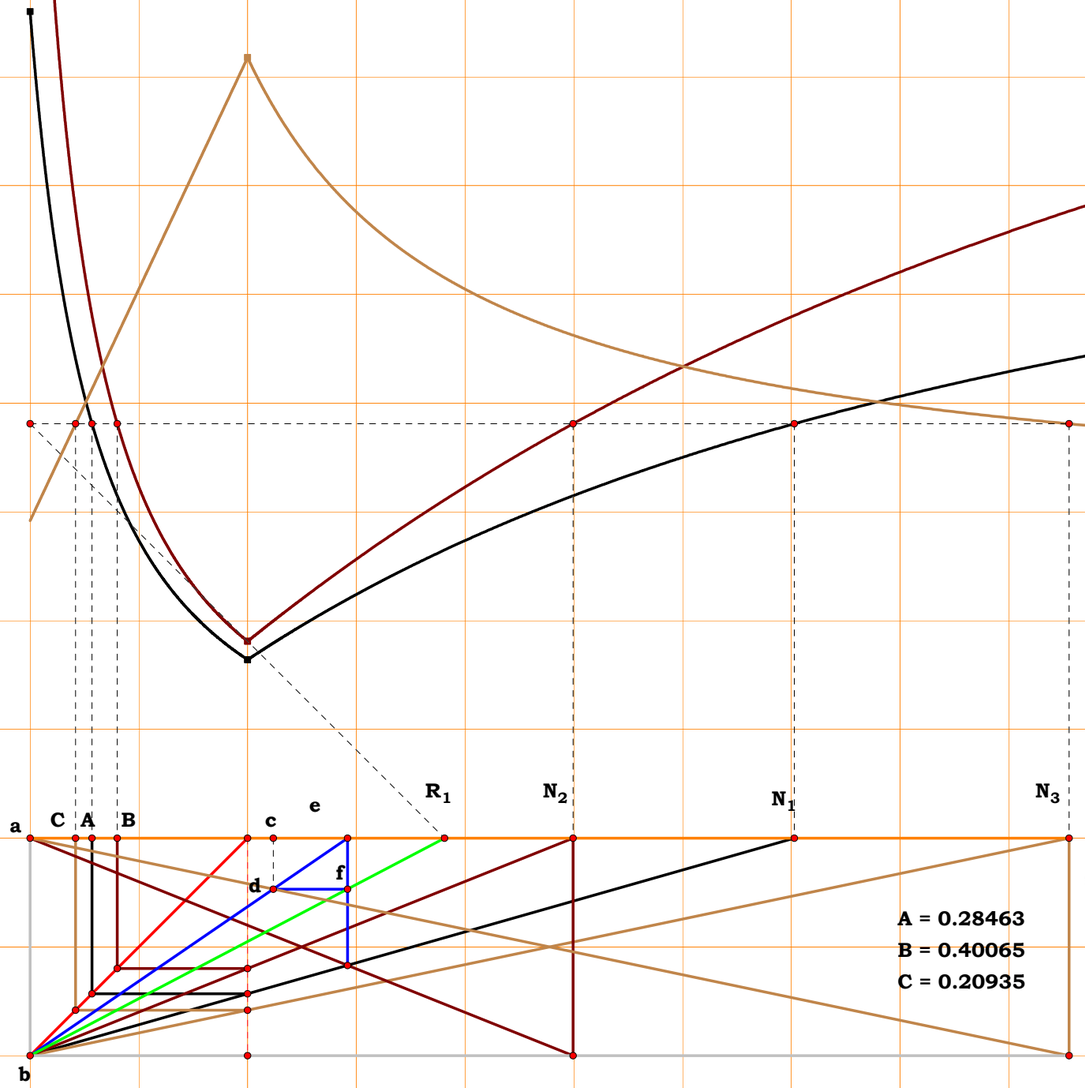
$\frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 1.90506$

$\frac{A+B+C}{(A+B)^2} = 1.90506$

$R_1 - \frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 0.00000$

$R_1 - \frac{A+B+C}{(A+B)^2} = 0.00000$

$\frac{A+B+C}{(A+B)^2} - \frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 0.00000$



$A = 0.28463$
$B = 0.40065$
$C = 0.20935$

$ab = 1.00000$
$N_1 = 3.51337$
$N_2 = 2.49592$
$N_3 = 4.77660$

$R_1 = 1.90506$

$$\frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 1.90506$$

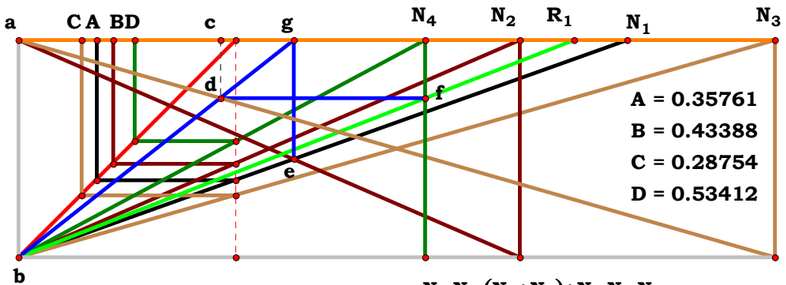
$$\frac{A+B+C}{(A+B)^2} = 1.90506$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 0.00000$$

$$R_1 - \frac{A+B+C}{(A+B)^2} = 0.00000$$

$$\frac{A+B+C}{(A+B)^2} - \frac{N_1 \cdot N_2 \cdot (N_1 \cdot N_2 + N_1 \cdot N_3 + N_2 \cdot N_3)}{N_3 \cdot (N_1 + N_2)^2} = 0.00000$$

1CST2R3



ab = 1.00000
N_1 = 2.79633
N_2 = 2.30481
N_3 = 3.47782
N_4 = 1.87224

R_1 = 2.55240

$$\frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 2.55240$$

$$\frac{A+B+C}{D \cdot (A+B)} = 2.55240$$

Given.

Unit. $ab := 1$ $N_1 := 2.79633$

$N_2 := 2.30481$ $N_3 := 3.47782$ $N_4 := 1.87224$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$ag := \frac{N_1 \cdot N_2}{N_1 + N_2} \qquad ac := \frac{ag \cdot N_3}{ag + N_3}$$

$$cd := \frac{ac}{N_3} \qquad R_1 := \frac{N_4}{1 - cd}$$

$R_1 = 2.552399$

Definitions.

$$R_1 - \frac{N_1 \cdot N_4 \cdot (N_2 + N_3) + N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

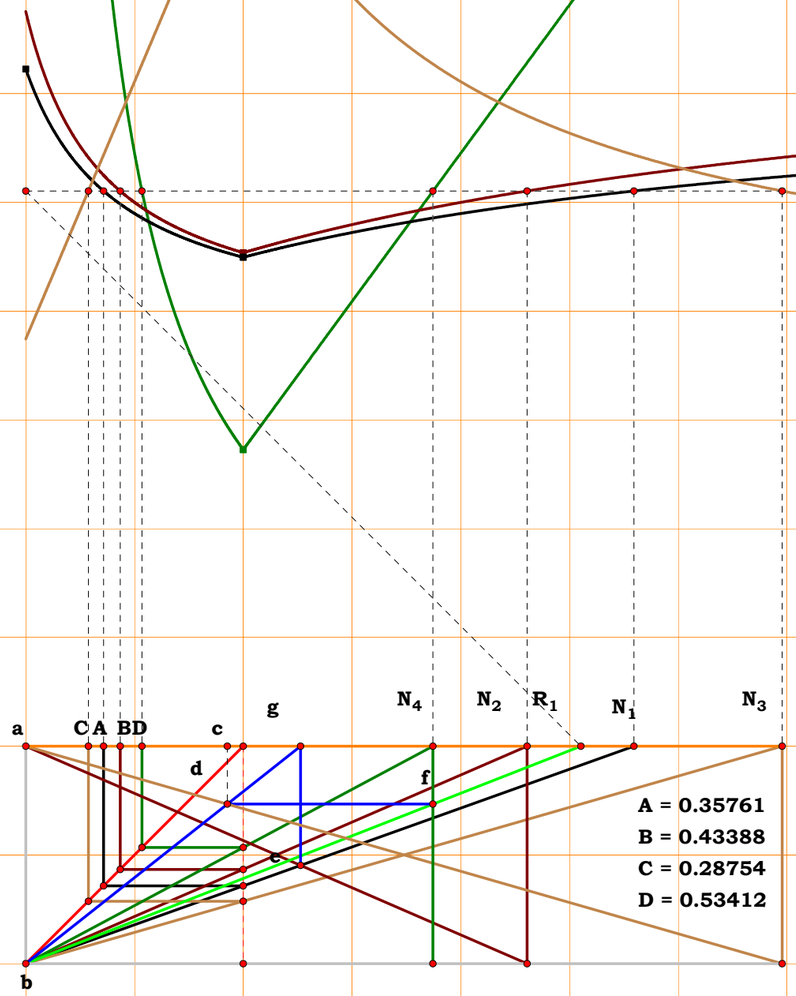
$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(A + B + C)}{D \cdot (A + B)} = 0$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 0.00000$$

$$R_1 - \frac{A+B+C}{D \cdot (A+B)} = 0.00000$$

$$\frac{A+B+C}{D \cdot (A+B)} - \frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 0.00000$$



$A = 0.35761$

$B = 0.43388$

$C = 0.28754$

$D = 0.53412$

$ab = 1.00000$

$N_1 = 2.79633$

$N_2 = 2.30481$

$N_3 = 3.47782$

$N_4 = 1.87224$

$R_1 = 2.55240$

$$\frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 2.55240$$

$$\frac{A+B+C}{D \cdot (A+B)} = 2.55240$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 0.00000$$

$$R_1 - \frac{A+B+C}{D \cdot (A+B)} = 0.00000$$

$$\frac{A+B+C}{D \cdot (A+B)} - \frac{N_1 \cdot N_4 \cdot (N_2+N_3)+N_2 \cdot N_3 \cdot N_4}{N_3 \cdot (N_1+N_2)} = 0.00000$$

1CST2R4

Given.

Unit. $ab := 1 \quad N_1 := 3.69900$

$N_2 := 2.52135 \quad N_3 := 2.03023$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$

Descriptions.

$ad := \frac{N_1 \cdot N_2}{N_1 + N_2} \qquad ac := \frac{ad \cdot N_3}{ad + N_3}$

$ce := \frac{ac}{N_3} \qquad R_1 := \frac{ad}{ce}$

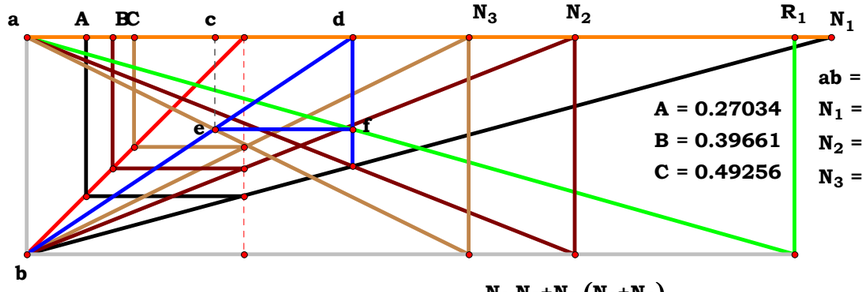
$R_1 = 3.529579$

Definitions.

$R_1 - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0$

$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$

$R_1 - \frac{(A + B + C)}{C \cdot (A + B)} = 0$



ab = 1.00000
A = 0.27034
B = 0.39661
C = 0.49256
N_1 = 3.69900
N_2 = 2.52135
N_3 = 2.03023

$R_1 = 3.52957$

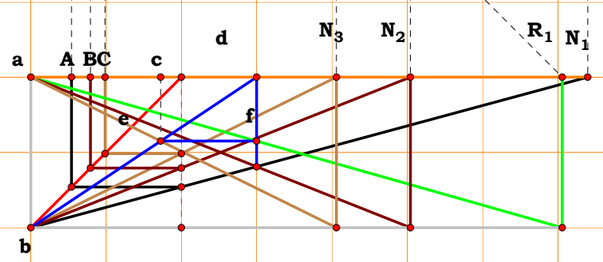
$\frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 3.52957$

$\frac{A+B+C}{C \cdot (A+B)} = 3.52957$

$R_1 - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0.00000$

$R_1 - \frac{A+B+C}{C \cdot (A+B)} = 0.00000$

$\frac{A+B+C}{C \cdot (A+B)} - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0.00000$



$A = 0.27034$

$B = 0.39661$

$C = 0.49256$

$ab = 1.00000$

$N_1 = 3.69900$

$N_2 = 2.52135$

$N_3 = 2.03023$

$R_1 = 3.52957$

$$\frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 3.52957$$

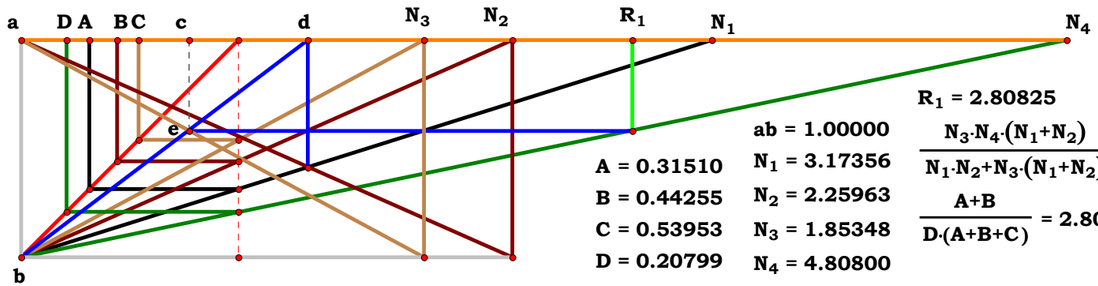
$$\frac{A+B+C}{C \cdot (A+B)} = 3.52957$$

$$R_1 - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0.00000$$

$$R_1 - \frac{A+B+C}{C \cdot (A+B)} = 0.00000$$

$$\frac{A+B+C}{C \cdot (A+B)} - \frac{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)}{N_1 + N_2} = 0.00000$$

1CST2R5



$R_1 = 2.80825$

$ab = 1.00000$ $\quad \frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 2.80825$

$A = 0.31510$ $\quad N_1 = 3.17356$

$B = 0.44255$ $\quad N_2 = 2.25963$ $\quad \frac{A+B}{D \cdot (A+B+C)} = 2.80825$

$C = 0.53953$ $\quad N_3 = 1.85348$

$D = 0.20799$ $\quad N_4 = 4.80800$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 0.00000$$

$$R_1 - \frac{A+B}{D \cdot (A+B+C)} = 0.00000$$

$$\frac{A+B}{D \cdot (A+B+C)} - \frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 0.00000$$

Given.

Unit. $ab := 1$

$N_1 := 3.17356 \quad N_2 := 2.25963$

$N_3 := 1.85348 \quad N_4 := 4.80800$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$ad := \frac{N_1 \cdot N_2}{N_1 + N_2} \qquad ac := \frac{ad \cdot N_3}{ad + N_3}$$

$$ce := \frac{ac}{N_3} \qquad R_1 := N_4 \cdot (1 - ce)$$

$R_1 = 2.808246$

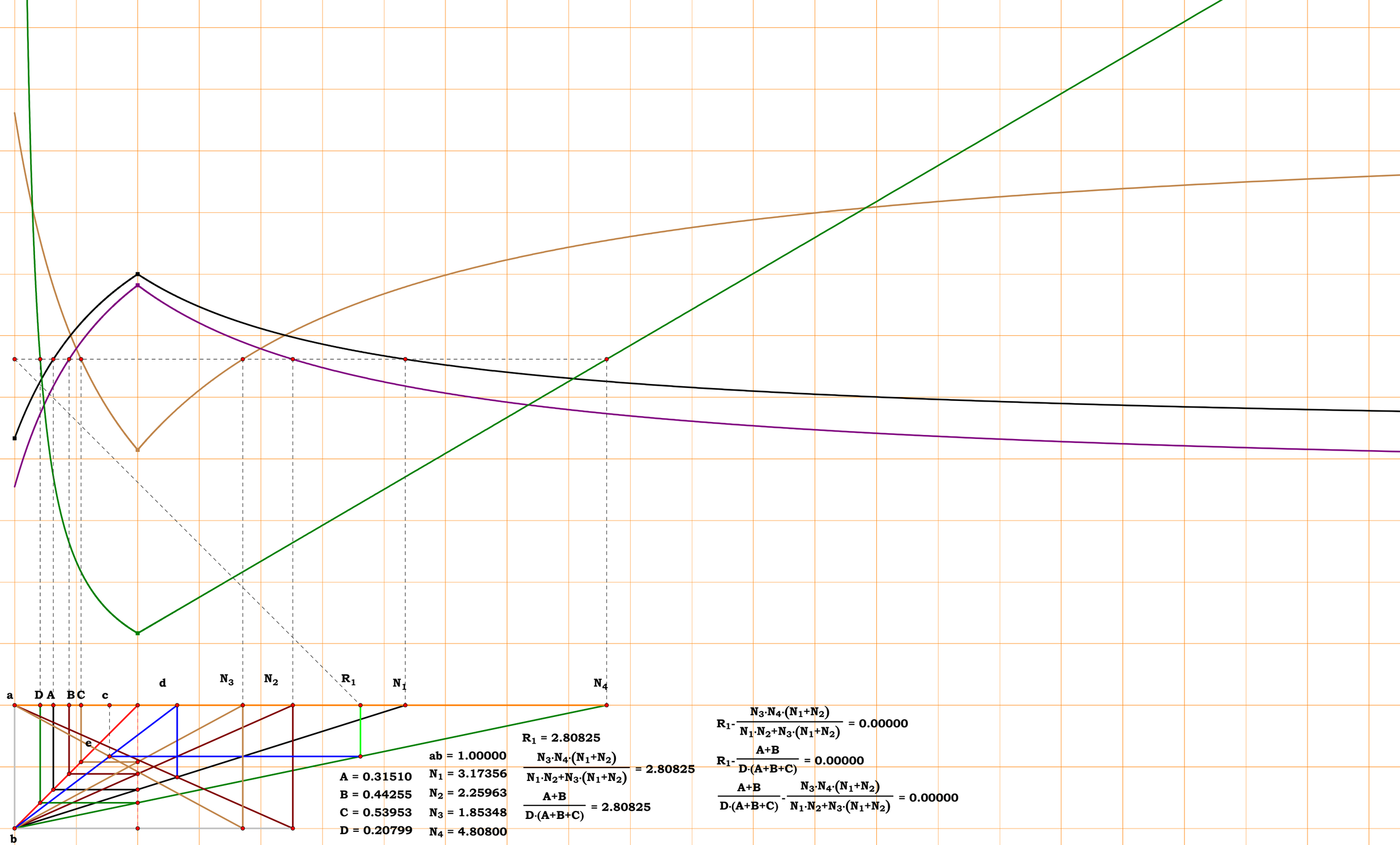
Definitions.

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1 + N_2)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(A + B)}{D \cdot (A + B + C)} = 0$$



A = 0.31510
B = 0.44255
C = 0.53953
D = 0.20799

ab = 1.00000
N_1 = 3.17356
N_2 = 2.25963
N_3 = 1.85348
N_4 = 4.80800

R_1 = 2.80825

$$\frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 2.80825$$

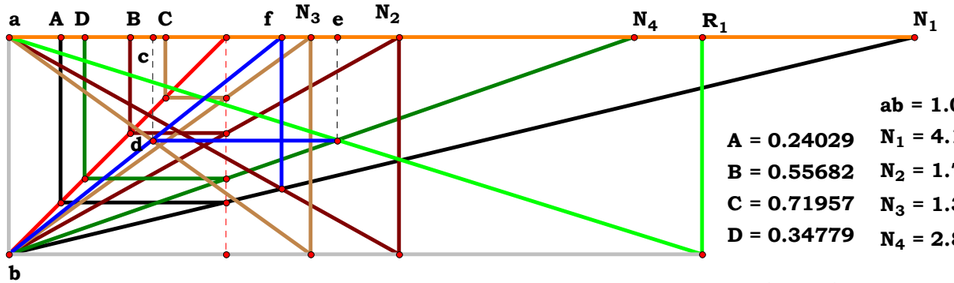
$$\frac{A+B}{D \cdot (A+B+C)} = 2.80825$$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 0.00000$$

$$R_1 - \frac{A+B}{D \cdot (A+B+C)} = 0.00000$$

$$\frac{A+B}{D \cdot (A+B+C)} - \frac{N_3 \cdot N_4 \cdot (N_1+N_2)}{N_1 \cdot N_2 + N_3 \cdot (N_1+N_2)} = 0.00000$$

1CST2R6



ab = 1.00000
A = 0.24029
B = 0.55682
C = 0.71957
D = 0.34779
N1 = 4.16164
N2 = 1.79591
N3 = 1.38971
N4 = 2.87533

R1 = 3.18516

$\frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 3.18516$

$\frac{A+B}{C\cdot D} = 3.18516$

Given.

Unit. $ab := 1$

$N_1 := 4.16164 \quad N_2 := 1.79591$

$N_3 := 1.38971 \quad N_4 := 2.87533$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$af := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad ac := \frac{af \cdot N_3}{af + N_3}$

$cd := \frac{ac}{N_3} \quad ae := N_4 \cdot (1 - cd)$

$R_1 := \frac{ae}{cd} \quad R_1 = 3.185154$

Definitions.

$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 + N_2)}{N_1 \cdot N_2} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$

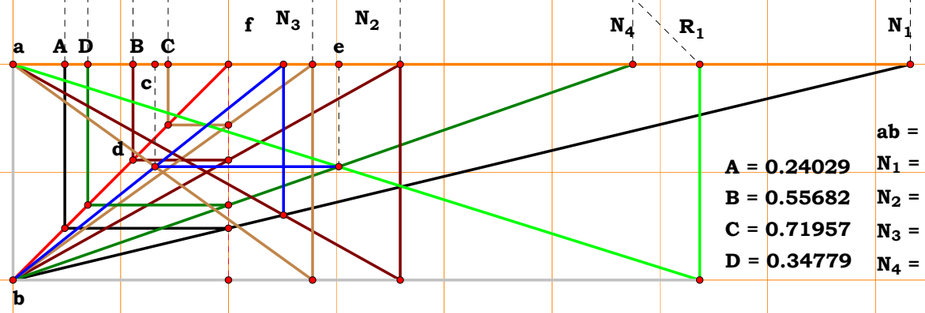
$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{(A + B)}{C \cdot D} = 0$

$R_1 - \frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 0.00000$

$R_1 - \frac{A+B}{C\cdot D} = 0.00000$

$\frac{A+B}{C\cdot D} - \frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 0.00000$



ab = 1.00000
N_1 = 4.16164
N_2 = 1.79591
N_3 = 1.38971
N_4 = 2.87533

A = 0.24029
B = 0.55682
C = 0.71957
D = 0.34779

$R_1 = 3.18516$

$$\frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 3.18516$$

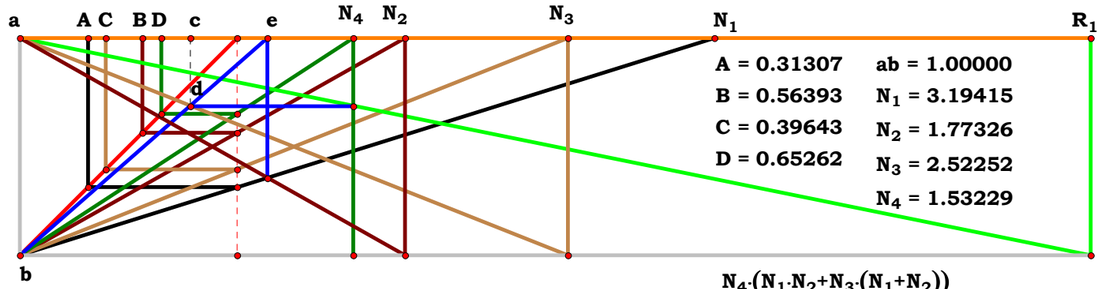
$$\frac{A+B}{C\cdot D} = 3.18516$$

$$R_1-\frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 0.00000$$

$$R_1-\frac{A+B}{C\cdot D} = 0.00000$$

$$\frac{A+B}{C\cdot D}-\frac{(N_1+N_2)\cdot N_3\cdot N_4}{N_1\cdot N_2} = 0.00000$$

1CST2R7



A = 0.31307 ab = 1.00000
B = 0.56393 N_1 = 3.19415
C = 0.39643 N_2 = 1.77326
D = 0.65262 N_3 = 2.52252
N_4 = 1.53229

$R_1 = 4.92211$

$$\frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 4.92211$$

$$\frac{A+B+C}{C\cdot D} = 4.92211$$

Given.

Unit. $ab := 1 \quad N_1 := 3.19415 \quad N_2 := 1.77326$

$N_3 := 2.52252 \quad N_4 := 1.53229$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$ae := \frac{N_1\cdot N_2}{N_1+N_2} \qquad ac := \frac{ae\cdot N_3}{ae+N_3}$$

$$cd := \frac{ac}{N_3} \qquad R_1 := \frac{N_4}{cd}$$

$R_1 = 4.92212$

Definitions.

$$R_1 - \frac{N_4\cdot\left[N_1\cdot N_2+N_3\cdot\left(N_1+N_2\right)\right]}{N_1\cdot N_2} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

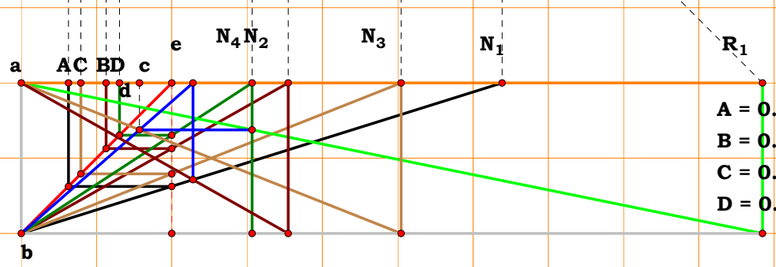
$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(A+B+C)}{C\cdot D} = 0$$

$$R_1 - \frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 0.00000$$

$$R_1 - \frac{A+B+C}{C\cdot D} = 0.00000$$

$$\frac{A+B+C}{C\cdot D} - \frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 0.00000$$



A = 0.31307
B = 0.56393
C = 0.39643
D = 0.65262

ab = 1.00000
N_1 = 3.19415
N_2 = 1.77326
N_3 = 2.52252
N_4 = 1.53229

$R_1 = 4.92211$

$$\frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 4.92211$$

$$\frac{A+B+C}{C\cdot D} = 4.92211$$

$$R_1-\frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 0.00000$$

$$R_1-\frac{A+B+C}{C\cdot D} = 0.00000$$

$$\frac{A+B+C}{C\cdot D}-\frac{N_4\cdot(N_1\cdot N_2+N_3\cdot(N_1+N_2))}{N_1\cdot N_2} = 0.00000$$

1CST3R0

Given.

Unit. $ab := 1$ $N_1 := 3.34279$

$N_2 := 1.99813$ $N_3 := 2.45592$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$de := \frac{N_2}{N_1}$ $cr := 1 - de$

$rN_3 := N_3 \cdot cr$ $R_1 := N_3 - rN_3$

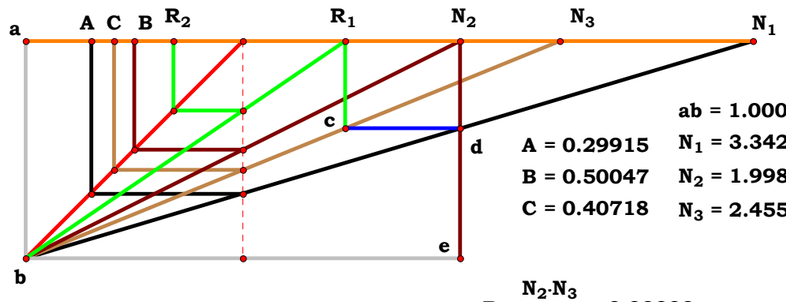
$R_1 = 1.468009$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2 \cdot N_3}{N_1} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A}{B \cdot C} = 0$ $R_2 - \frac{B \cdot C}{A} = 0$



ab = 1.00000
A = 0.29915 N1 = 3.34279
B = 0.50047 N2 = 1.99813
C = 0.40718 N3 = 2.45592

$R_1 = 1.46801$

$\frac{N_2 \cdot N_3}{N_1} = 1.46801$

$\frac{A}{B \cdot C} = 1.46801$

$R_1 - \frac{N_2 \cdot N_3}{N_1} = 0.00000$

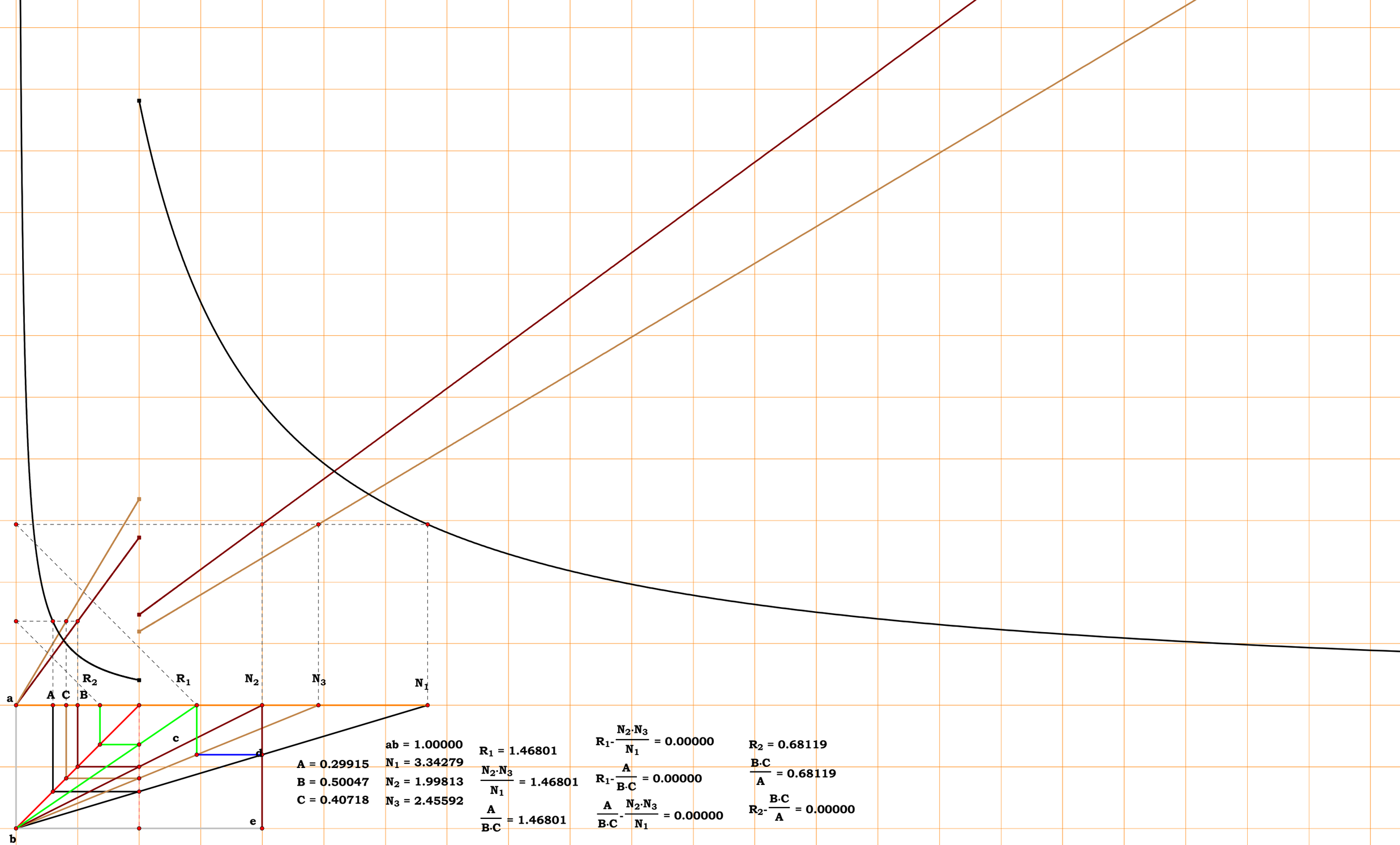
$R_1 - \frac{A}{B \cdot C} = 0.00000$

$\frac{A}{B \cdot C} - \frac{N_2 \cdot N_3}{N_1} = 0.00000$

$R_2 = 0.68119$

$\frac{B \cdot C}{A} = 0.68119$

$R_2 - \frac{B \cdot C}{A} = 0.00000$



$A = 0.29915$
$B = 0.50047$
$C = 0.40718$

$ab = 1.00000$
$N_1 = 3.34279$
$N_2 = 1.99813$
$N_3 = 2.45592$

$R_1 = 1.46801$

$\frac{N_2 \cdot N_3}{N_1} = 1.46801$

$\frac{A}{B \cdot C} = 1.46801$

$R_1 - \frac{N_2 \cdot N_3}{N_1} = 0.00000$

$R_1 - \frac{A}{B \cdot C} = 0.00000$

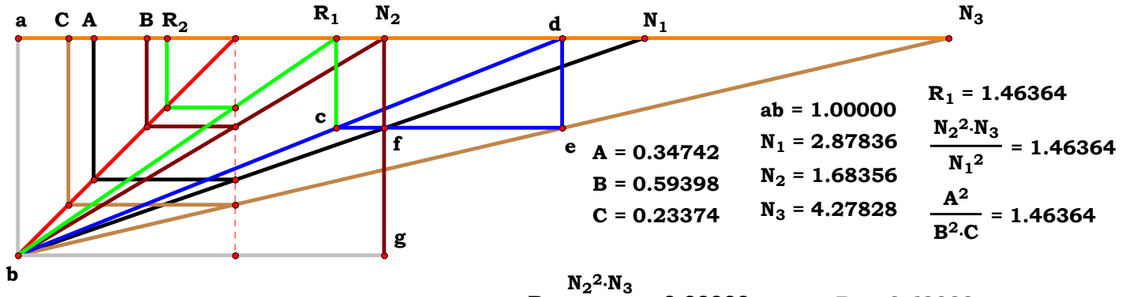
$\frac{A}{B \cdot C} - \frac{N_2 \cdot N_3}{N_1} = 0.00000$

$R_2 = 0.68119$

$\frac{B \cdot C}{A} = 0.68119$

$R_2 - \frac{B \cdot C}{A} = 0.00000$

1CST3R1



ab = 1.00000
N1 = 2.87836
N2 = 1.68356
N3 = 4.27828

A = 0.34742
B = 0.59398
C = 0.23374

$R_1 = 1.46364$

$\frac{N_2^2 \cdot N_3}{N_1^2} = 1.46364$

$\frac{A^2}{B^2 \cdot C} = 1.46364$

Given.

Unit. $ab := 1$ $N_1 := 2.87836$

$N_2 := 1.68356$ $N_3 := 4.27828$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$ad := N_2 \cdot \frac{N_3}{N_1}$ $cR_1 := \frac{N_1 - N_2}{N_1}$

$dR_1 := ad \cdot cR_1$ $R_1 := ad - dR_1$

$R_1 = 1.463646$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2^2 \cdot N_3}{N_1^2} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A^2}{B^2 \cdot C} = 0$ $R_2 - \frac{B^2 \cdot C}{A^2} = 0$

$R_1 - \frac{N_2^2 \cdot N_3}{N_1^2} = 0.00000$

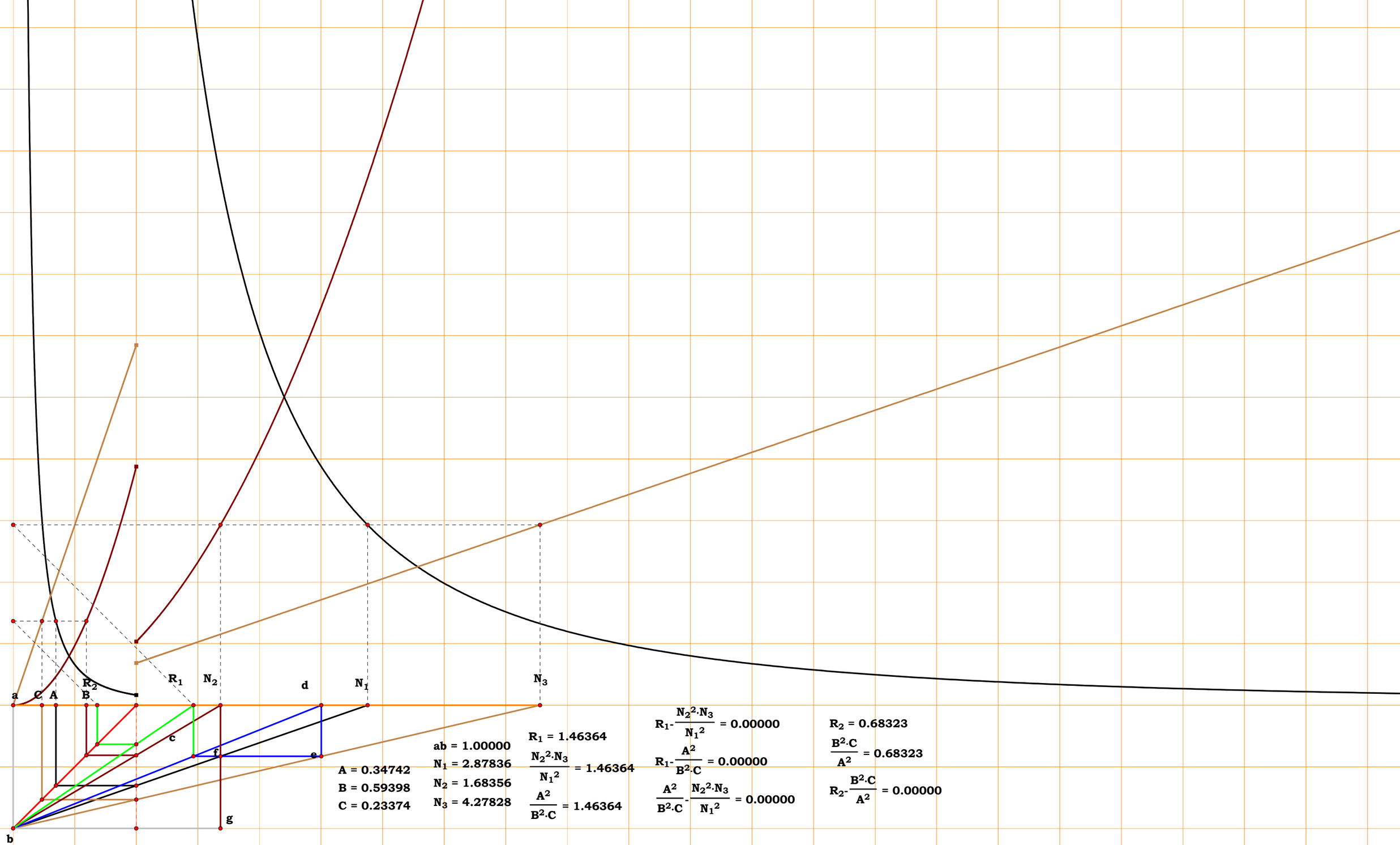
$R_1 - \frac{A^2}{B^2 \cdot C} = 0.00000$

$\frac{A^2}{B^2 \cdot C} - \frac{N_2^2 \cdot N_3}{N_1^2} = 0.00000$

$R_2 = 0.68323$

$\frac{B^2 \cdot C}{A^2} = 0.68323$

$R_2 - \frac{B^2 \cdot C}{A^2} = 0.00000$



A = 0.34742
B = 0.59398
C = 0.23374

ab = 1.00000
N_1 = 2.87836
N_2 = 1.68356
N_3 = 4.27828

$R_1 = 1.46364$

$\frac{N_2^2 \cdot N_3}{N_1^2} = 1.46364$

$\frac{A^2}{B^2 \cdot C} = 1.46364$

$R_1 - \frac{N_2^2 \cdot N_3}{N_1^2} = 0.00000$

$R_1 - \frac{A^2}{B^2 \cdot C} = 0.00000$

$\frac{A^2}{B^2 \cdot C} - \frac{N_2^2 \cdot N_3}{N_1^2} = 0.00000$

$R_2 = 0.68323$

$\frac{B^2 \cdot C}{A^2} = 0.68323$

$R_2 - \frac{B^2 \cdot C}{A^2} = 0.00000$

1CST3R2

Given.

Unit. $ab := 1$ $N_1 := 1.91661$

$N_2 := 1.31073$ $N_3 := 3.70270$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$ad := \frac{N_2^{\,2} \cdot N_3}{N_1^{\,2}}$ $cR_1 := \frac{N_1 - N_2}{N_1}$

$dr := ad \cdot cR_1$ $R_1 := ad - dr$

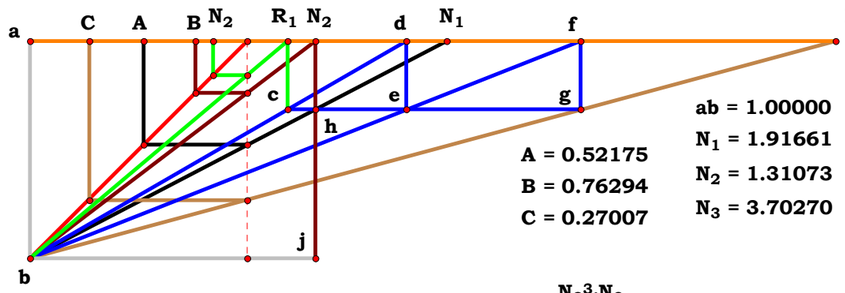
$R_1 = 1.184287$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A^3}{B^3 \cdot C} = 0$ $R_2 - \frac{B^3 \cdot C}{A^3} = 0$



$ab = 1.00000$

$N_1 = 1.91661$

$N_2 = 1.31073$

$N_3 = 3.70270$

$A = 0.52175$

$B = 0.76294$

$C = 0.27007$

$R_1 = 1.18427$

$\frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}} = 1.18427$

$\frac{A^3}{B^3 \cdot C} = 1.18427$

$R_1 - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}} = 0.00000$

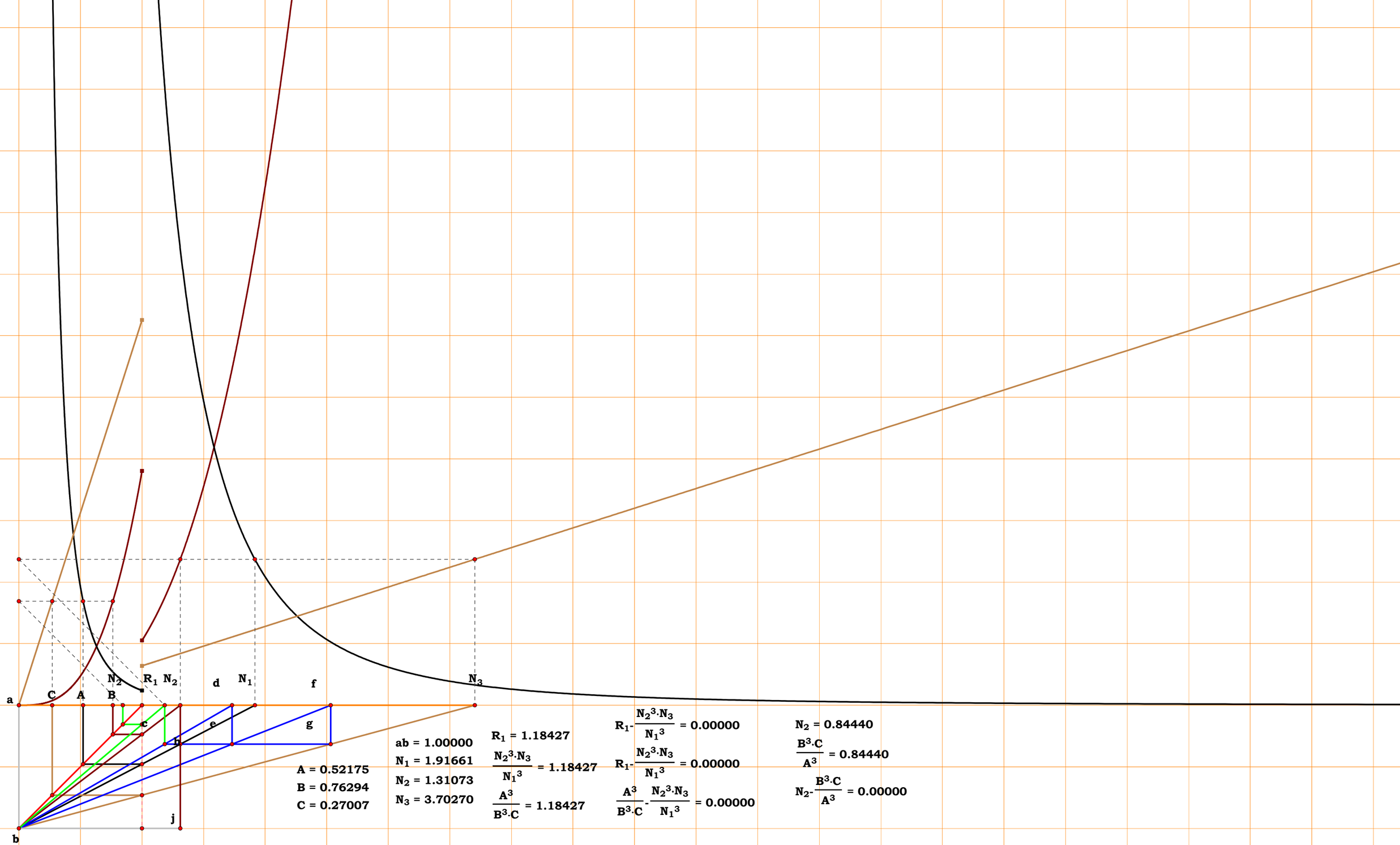
$R_1 - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}} = 0.00000$

$\frac{A^3}{B^3 \cdot C} - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}} = 0.00000$

$N_2 = 0.84440$

$\frac{B^3 \cdot C}{A^3} = 0.84440$

$N_2 - \frac{B^3 \cdot C}{A^3} = 0.00000$



A = 0.52175
B = 0.76294
C = 0.27007

ab = 1.00000
N_1 = 1.91661
N_2 = 1.31073
N_3 = 3.70270

$R_1 = 1.18427$

$\frac{N_2^3 \cdot N_3}{N_1^3} = 1.18427$

$\frac{A^3}{B^3 \cdot C} = 1.18427$

$R_1 - \frac{N_2^3 \cdot N_3}{N_1^3} = 0.00000$

$R_1 - \frac{N_2^3 \cdot N_3}{N_1^3} = 0.00000$

$\frac{A^3}{B^3 \cdot C} - \frac{N_2^3 \cdot N_3}{N_1^3} = 0.00000$

$N_2 = 0.84440$

$\frac{B^3 \cdot C}{A^3} = 0.84440$

$N_2 - \frac{B^3 \cdot C}{A^3} = 0.00000$

1CST3R3

Given.

Unit. $ab := 1$ $N_1 := 2.42893$

$N_2 := 1.55071$ $N_3 := 4.39317$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$ad := \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3}}$ $cd := \frac{N_1 - N_2}{N_1}$ $R_1 := \frac{ad}{cd}$

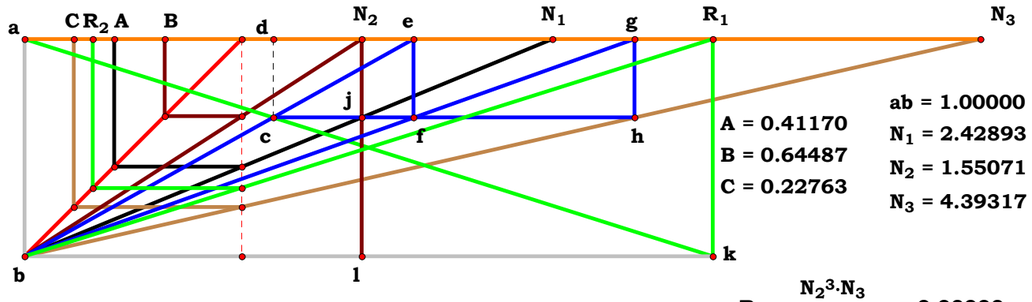
$R_1 = 3.161815$ $R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,2} \cdot (N_1 - N_2)} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A^3}{B^2 \cdot C \cdot (B - A)} = 0$ $R_2 - \frac{B^2 \cdot C \cdot (B - A)}{A^3} = 0$



A = 0.41170
B = 0.64487
C = 0.22763

ab = 1.00000
N_1 = 2.42893
N_2 = 1.55071
N_3 = 4.39317

$R_1 = 3.16181$

$\frac{N_2^{\,3} \cdot N_3}{N_1^{\,3} - N_1^{\,2} \cdot N_2} = 3.16181$

$\frac{A^3}{B^2 \cdot C \cdot (B-A)} = 3.16181$

$R_1 - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3} - N_1^{\,2} \cdot N_2} = 0.00000$

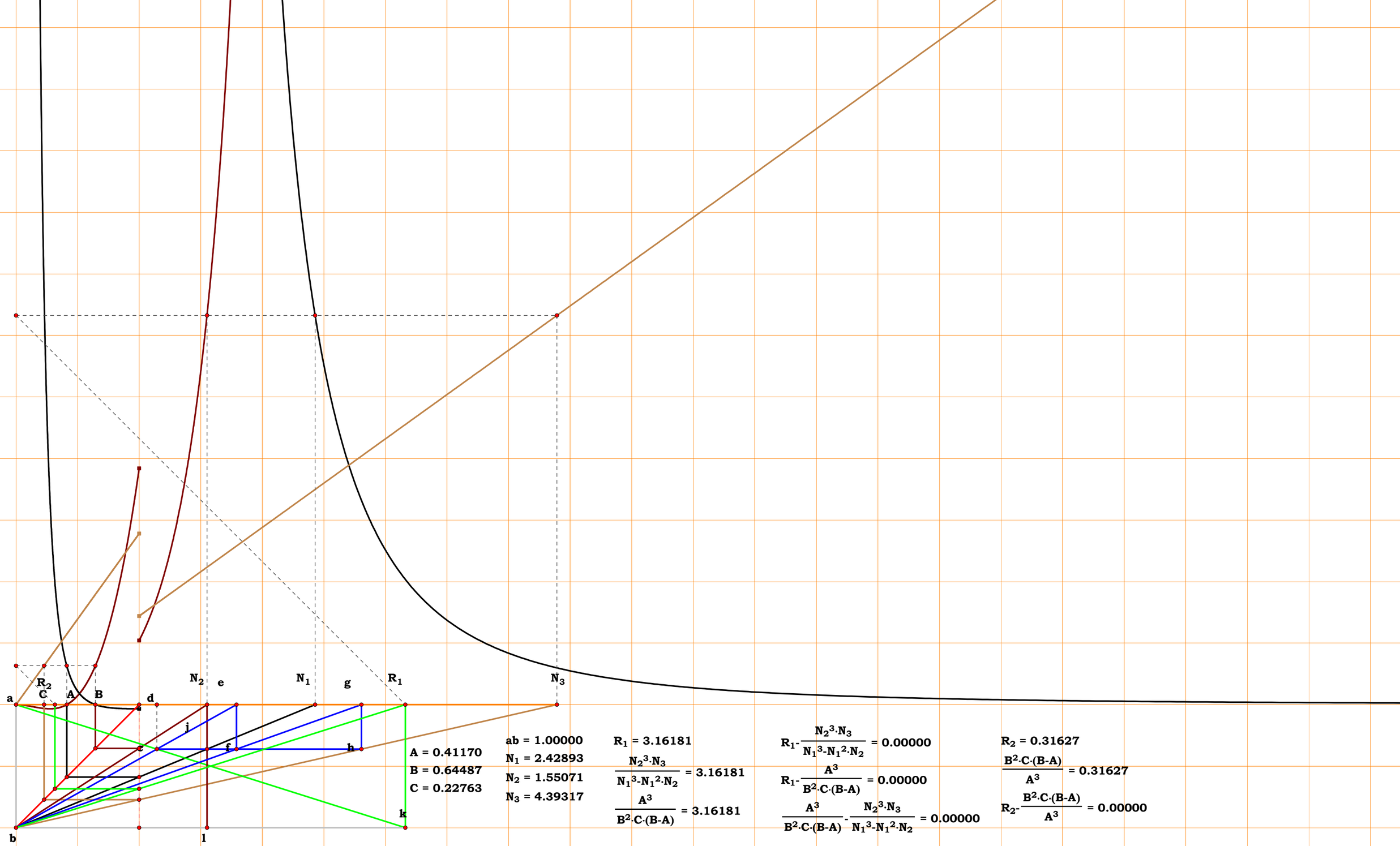
$R_1 - \frac{A^3}{B^2 \cdot C \cdot (B-A)} = 0.00000$

$\frac{A^3}{B^2 \cdot C \cdot (B-A)} - \frac{N_2^{\,3} \cdot N_3}{N_1^{\,3} - N_1^{\,2} \cdot N_2} = 0.00000$

$R_2 = 0.31627$

$\frac{B^2 \cdot C \cdot (B-A)}{A^3} = 0.31627$

$R_2 - \frac{B^2 \cdot C \cdot (B-A)}{A^3} = 0.00000$



A = 0.41170
B = 0.64487
C = 0.22763

ab = 1.00000
N_1 = 2.42893
N_2 = 1.55071
N_3 = 4.39317

$R_1 = 3.16181$

$$\frac{N_2^3 \cdot N_3}{N_1^3 - N_1^2 \cdot N_2} = 3.16181$$

$$\frac{A^3}{B^2 \cdot C \cdot (B-A)} = 3.16181$$

$$R_1 - \frac{N_2^3 \cdot N_3}{N_1^3 - N_1^2 \cdot N_2} = 0.00000$$

$$R_1 - \frac{A^3}{B^2 \cdot C \cdot (B-A)} = 0.00000$$

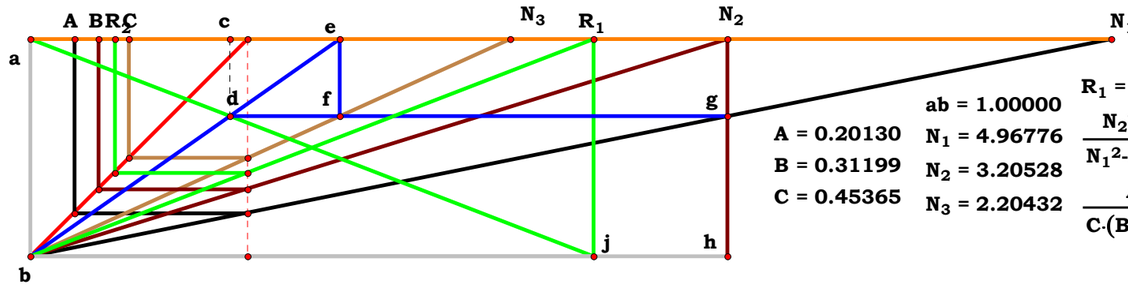
$$\frac{A^3}{B^2 \cdot C \cdot (B-A)} - \frac{N_2^3 \cdot N_3}{N_1^3 - N_1^2 \cdot N_2} = 0.00000$$

$R_2 = 0.31627$

$$\frac{B^2 \cdot C \cdot (B-A)}{A^3} = 0.31627$$

$$R_2 - \frac{B^2 \cdot C \cdot (B-A)}{A^3} = 0.00000$$

1CST3R4



ab = 1.00000
A = 0.20130
B = 0.31199
C = 0.45365
N_1 = 4.96776
N_2 = 3.20528
N_3 = 2.20432

$R_1 = 2.58656$

$\frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 2.58656$

$\frac{A^2}{C \cdot (B^2 - A \cdot B)} = 2.58656$

Given.

Unit. $ab := 1$ $N_1 := 4.96776$

$N_2 := 3.20528$ $N_3 := 2.20432$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$cd := \frac{N_1 - N_2}{N_1}$ $ac := \frac{N_2^2 \cdot N_3}{N_1^2}$ $R_1 := \frac{ac}{cd}$

$R_1 = 2.586555$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2^2 \cdot N_3}{N_1 \cdot (N_1 - N_2)} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A^2}{C \cdot (B^2 - A \cdot B)} = 1.7'$ $R_2 - \frac{C \cdot (B^2 - A \cdot B)}{A^2} = 0$

$R_1 - \frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 0.00000$

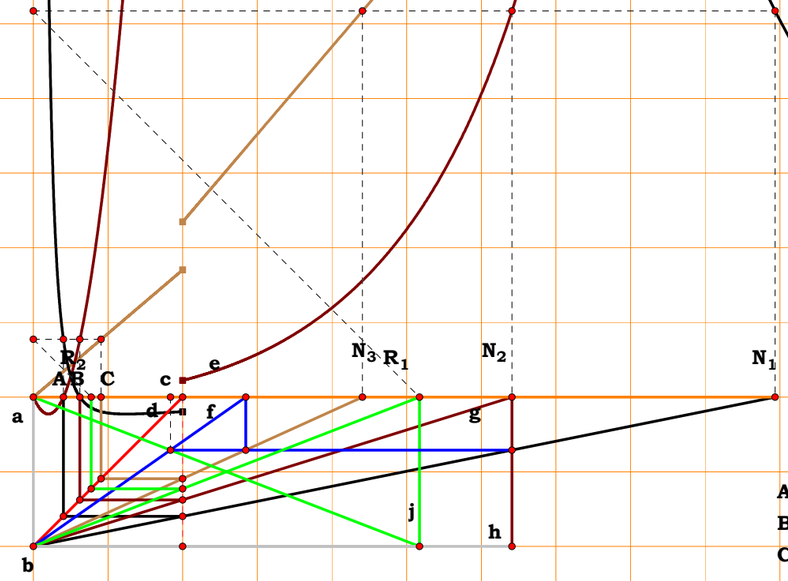
$R_1 - \frac{A^2}{C \cdot (B^2 - A \cdot B)} = 0.00000$

$\frac{A^2}{C \cdot (B^2 - A \cdot B)} - \frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 0.00000$

$R_2 = 0.38661$

$\frac{C \cdot (B^2 - A \cdot B)}{A^2} = 0.38661$

$R_2 - \frac{C \cdot (B^2 - A \cdot B)}{A^2} = 0.00000$



$A = 0.20130$
$B = 0.31199$
$C = 0.45365$

$ab = 1.00000$
$N_1 = 4.96776$
$N_2 = 3.20528$
$N_3 = 2.20432$

$R_1 = 2.58656$

$$\frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 2.58656$$

$$\frac{A^2}{C \cdot (B^2 - A \cdot B)} = 2.58656$$

$$R_1 - \frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 0.00000$$

$$R_1 - \frac{A^2}{C \cdot (B^2 - A \cdot B)} = 0.00000$$

$$\frac{A^2}{C \cdot (B^2 - A \cdot B)} - \frac{N_2^2 \cdot N_3}{N_1^2 - N_1 \cdot N_2} = 0.00000$$

$R_2 = 0.38661$

$$\frac{C \cdot (B^2 - A \cdot B)}{A^2} = 0.38661$$

$$R_2 - \frac{C \cdot (B^2 - A \cdot B)}{A^2} = 0.00000$$

1CST3R5

Given.

Unit. $ab := 1$ $N_1 := 4.64493$

$N_2 := 2.01597$ $N_3 := 3.11737$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$ac := \frac{N_2 \cdot N_3}{N_1}$ $cd := \frac{N_1 - N_2}{N_1}$ $R_1 := \frac{ac}{cd}$

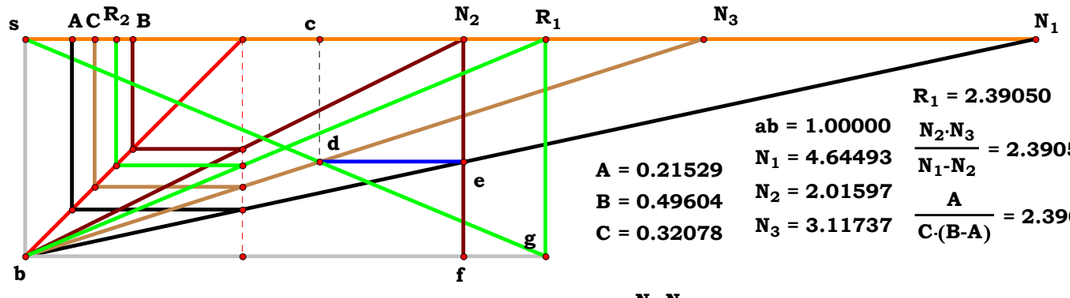
$R_1 = 2.390498$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A}{C \cdot (B - A)} = 0$ $R_2 - \frac{C \cdot (B - A)}{A} = 0$



$A = 0.21529$
$B = 0.49604$
$C = 0.32078$

$ab = 1.00000$
$N_1 = 4.64493$
$N_2 = 2.01597$
$N_3 = 3.11737$

$R_1 = 2.39050$

$\frac{N_2 \cdot N_3}{N_1 - N_2} = 2.39050$

$\frac{A}{C \cdot (B-A)} = 2.39050$

$R_1 - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0.00000$

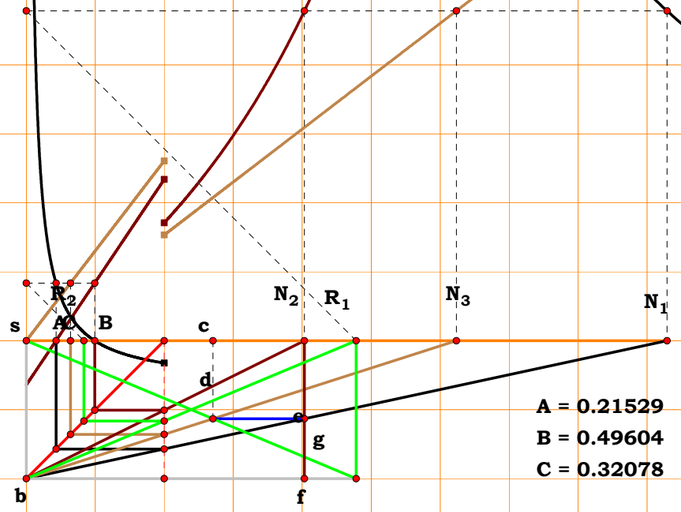
$R_1 - \frac{A}{C \cdot (B-A)} = 0.00000$

$\frac{A}{C \cdot (B-A)} - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0.00000$

$R_2 = 0.41832$

$\frac{C \cdot (B-A)}{A} = 0.41832$

$R_2 - \frac{C \cdot (B-A)}{A} = 0.00000$



A = 0.21529
B = 0.49604
C = 0.32078

ab = 1.00000
N_1 = 4.64493
N_2 = 2.01597
N_3 = 3.11737

$R_1 = 2.39050$

$\frac{N_2 \cdot N_3}{N_1 - N_2} = 2.39050$

$\frac{A}{C \cdot (B-A)} = 2.39050$

$R_1 - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0.00000$

$R_1 - \frac{A}{C \cdot (B-A)} = 0.00000$

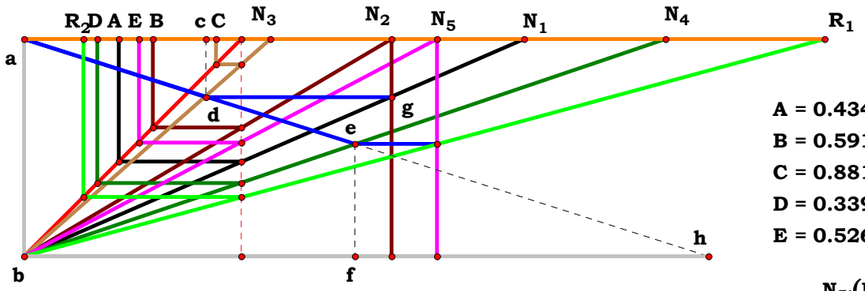
$\frac{A}{C \cdot (B-A)} - \frac{N_2 \cdot N_3}{N_1 - N_2} = 0.00000$

$R_2 = 0.41832$

$\frac{C \cdot (B-A)}{A} = 0.41832$

$R_2 - \frac{C \cdot (B-A)}{A} = 0.00000$

1CST3R6



Given.

Unit. $ab := 1$ $N_1 := 2.29912$

$N_2 := 1.68975$ $N_3 := 1.13472$

$N_4 := 2.94955$ $N_5 := 1.89941$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$gN_2 := 1 - \frac{N_2}{N_1} \qquad cN_3 := N_3 \cdot gN_2$$

$$ac := N_3 - cN_3 \qquad bh := \frac{ac}{gN_2}$$

$$bf := \frac{bh \cdot N_4}{bh + N_4} \qquad ef := \frac{bf}{N_4} \qquad R_1 := \frac{N_5}{ef}$$

$R_1 = 3.67992$ $\qquad R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_5 \cdot \left[N_1 \cdot N_4 + N_2 \cdot \left(N_3 - N_4\right)\right]}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{(A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot E} = 0 \qquad R_2 - \frac{A \cdot D \cdot E}{(A \cdot D - A \cdot C + B \cdot C)} = 0$$

$A = 0.43495$ $\quad ab = 1.00000$

$B = 0.59180$ $\quad N_1 = 2.29912$

$C = 0.88128$ $\quad N_2 = 1.68975$

$D = 0.33904$ $\quad N_3 = 1.13472$

$E = 0.52648$ $\quad N_4 = 2.94955$

$N_5 = 1.89941$

$R_1 = 3.67991$

$$\frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot (N_3 - N_4))}{N_2 \cdot N_3} = 3.67991$$

$$\frac{(A \cdot D - A \cdot C) + B \cdot C}{A \cdot D \cdot E} = 3.67991$$

$$R_1 - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot (N_3 - N_4))}{N_2 \cdot N_3} = 0.00000$$

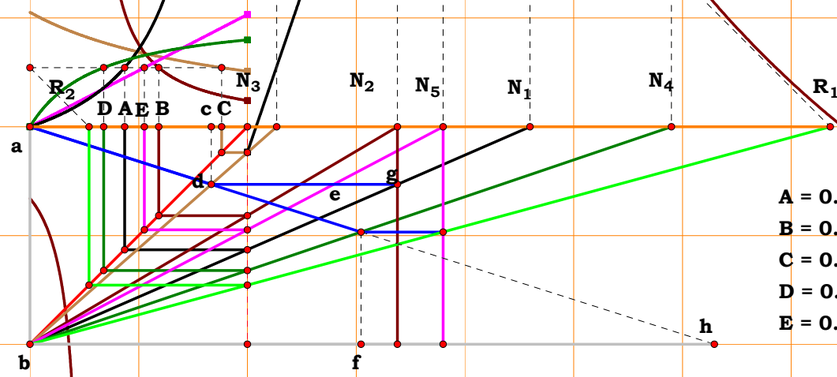
$$R_1 - \frac{(A \cdot D - A \cdot C) + B \cdot C}{A \cdot D \cdot E} = 0.00000$$

$$\frac{(A \cdot D - A \cdot C) + B \cdot C}{A \cdot D \cdot E} - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot (N_3 - N_4))}{N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.27175$

$$\frac{A \cdot D \cdot E}{(A \cdot D - A \cdot C) + B \cdot C} = 0.27175$$

$$R_2 - \frac{A \cdot D \cdot E}{(A \cdot D - A \cdot C) + B \cdot C} = 0.00000$$



$ab = 1.00000$

$A = 0.43495$

$B = 0.59180$

$C = 0.88128$

$D = 0.33904$

$E = 0.52648$

$N_1 = 2.29912$

$N_2 = 1.68975$

$N_3 = 1.13472$

$N_4 = 2.94955$

$N_5 = 1.89941$

$R_1 = 3.67991$

$$\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot(N_3-N_4))}{N_2\cdot N_3} = 3.67991$$

$$\frac{(A\cdot D-A\cdot C)+B\cdot C}{A\cdot D\cdot E} = 3.67991$$

$$R_1-\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot(N_3-N_4))}{N_2\cdot N_3} = 0.00000$$

$$R_1-\frac{(A\cdot D-A\cdot C)+B\cdot C}{A\cdot D\cdot E} = 0.00000$$

$$\frac{(A\cdot D-A\cdot C)+B\cdot C}{A\cdot D\cdot E}-\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot(N_3-N_4))}{N_2\cdot N_3} = 0.00000$$

$R_2 = 0.27175$

$$\frac{A\cdot D\cdot E}{(A\cdot D-A\cdot C)+B\cdot C} = 0.27175$$

$$R_2-\frac{A\cdot D\cdot E}{(A\cdot D-A\cdot C)+B\cdot C} = 0.00000$$

1CST4R0

Given.

Unit. $ab := 1$ $N_1 := 2.73480$

$N_2 := 1.77372$ $N_3 := 4.46042$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$dN_2 := 1 - \frac{N_2}{N_1}$ $R_1 := N_3 \cdot dN_2$

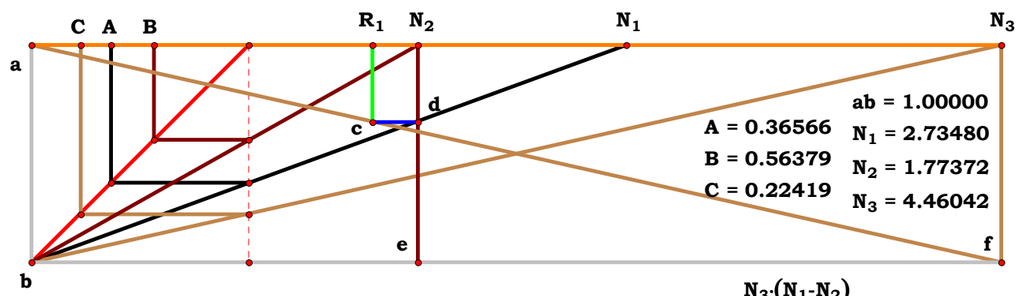
$R_1 = 1.567508$

Definitions.

$$R_1 - \frac{N_3 \cdot (N_1 - N_2)}{N_1} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$$R_1 - \frac{(B - A)}{B \cdot C} = 0$$



ab = 1.00000
A = 0.36566
B = 0.56379
C = 0.22419
N1 = 2.73480
N2 = 1.77372
N3 = 4.46042

$R_1 = 1.56751$

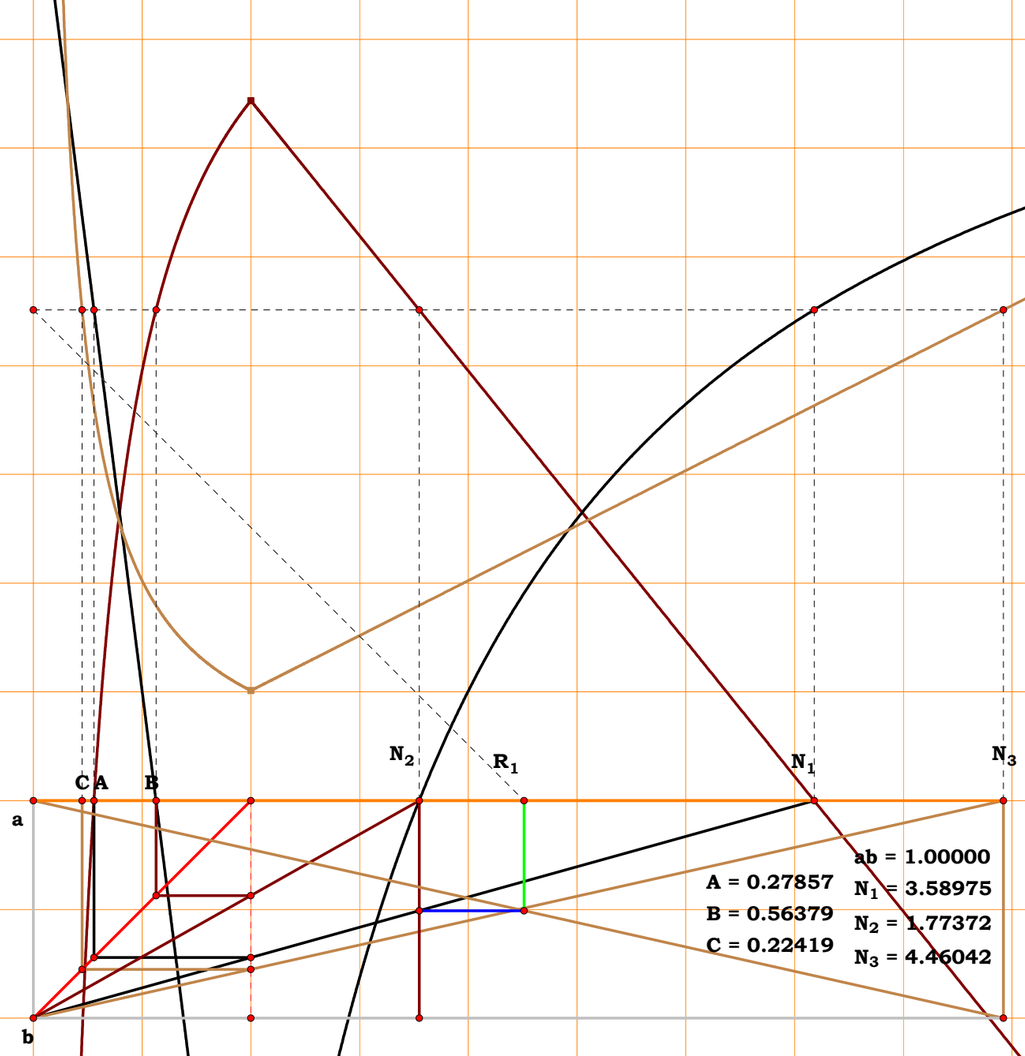
$\frac{N_3 \cdot (N_1 - N_2)}{N_1} = 1.56751$

$\frac{B-A}{B \cdot C} = 1.56751$

$$R_1 - \frac{N_3 \cdot (N_1 - N_2)}{N_1} = 0.00000$$

$$R_1 - \frac{B-A}{B \cdot C} = 0.00000$$

$$\frac{B-A}{B \cdot C} - \frac{N_3 \cdot (N_1 - N_2)}{N_1} = 0.00000$$



ab = 1.00000
A = 0.27857
B = 0.56379
C = 0.22419
N_1 = 3.58975
N_2 = 1.77372
N_3 = 4.46042

R_1 = 2.25649

$\frac{N_3\cdot(N_1-N_2)}{N_1}$ = 2.25649

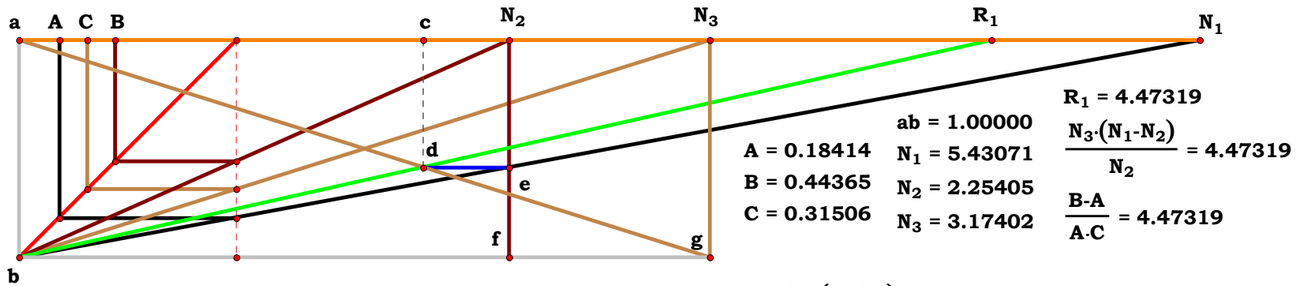
$\frac{B-A}{B\cdot C}$ = 2.25649

$R_1-\frac{N_3\cdot(N_1-N_2)}{N_1}$ = 0.00000

$R_1-\frac{B-A}{B\cdot C}$ = 0.00000

$\frac{B-A}{B\cdot C}-\frac{N_3\cdot(N_1-N_2)}{N_1}$ = 0.00000

1CST4R1



Given.

Unit. $ab := 1$ $N_1 := 5.43071$

$N_2 := 2.25405$ $N_3 := 3.17402$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$$

Descriptions.

$$cd := \frac{N_1 - N_2}{N_1} \quad ac := \frac{N_3 \cdot (N_1 - N_2)}{N_1}$$

$$R_1 := \frac{ac}{1 - cd}$$

$R_1 = 4.473185$

Definitions.

$$R_1 - \frac{N_3 \cdot (N_1 - N_2)}{N_2} = 0$$

$$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0$$

$$R_1 - \frac{(B - A)}{A \cdot C} = 0$$

$A = 0.18414$
$B = 0.44365$
$C = 0.31506$

$ab = 1.00000$
$N_1 = 5.43071$
$N_2 = 2.25405$
$N_3 = 3.17402$

$R_1 = 4.47319$

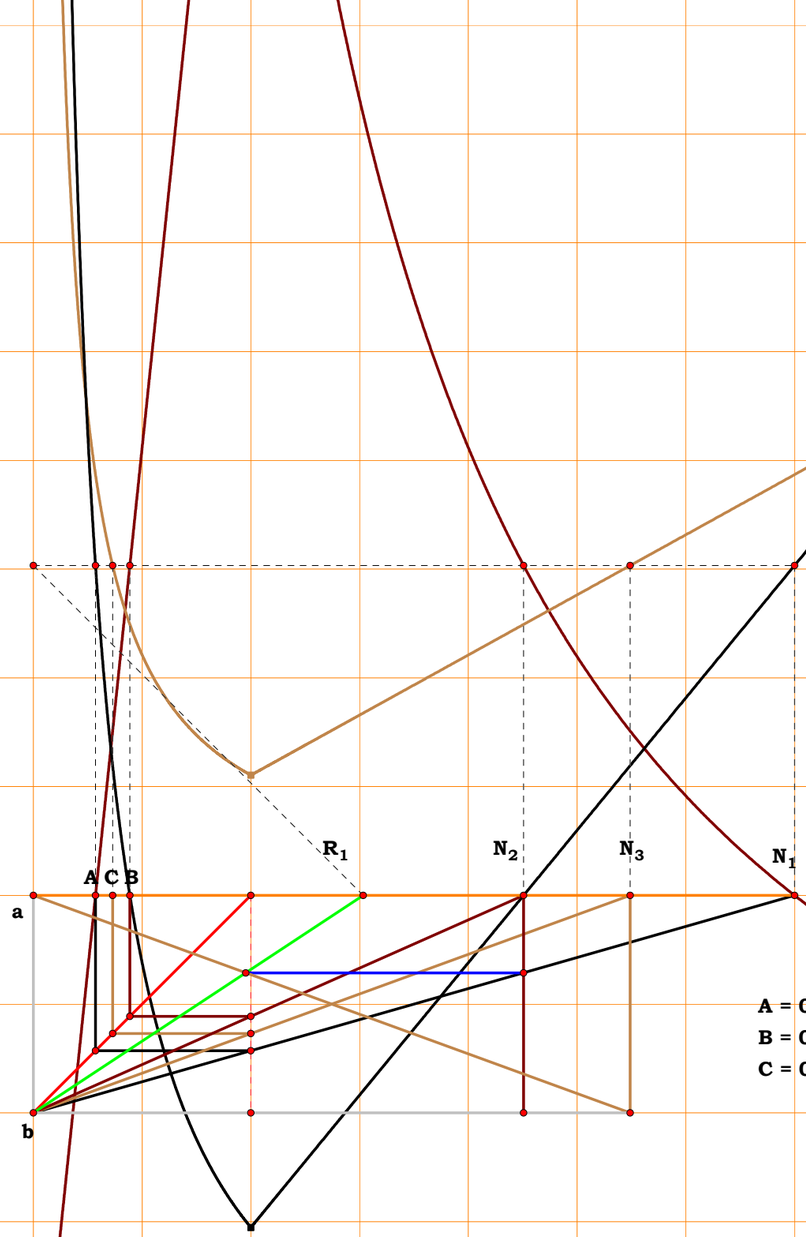
$$\frac{N_3 \cdot (N_1 - N_2)}{N_2} = 4.47319$$

$$\frac{B-A}{A \cdot C} = 4.47319$$

$$R_1 - \frac{N_3 \cdot (N_1 - N_2)}{N_2} = 0.00000$$

$$R_1 - \frac{B-A}{A \cdot C} = 0.00000$$

$$\frac{B-A}{A \cdot C} - \frac{N_3 \cdot (N_1 - N_2)}{N_2} = 0.00000$$



$A = 0.28574$
$B = 0.44365$
$C = 0.36441$

$ab = 1.00000$
$N_1 = 3.49971$
$N_2 = 2.25405$
$N_3 = 2.74419$

$R_1 = 1.51653$

$$\frac{N_3\cdot(N_1-N_2)}{N_2} = 1.51653$$

$$\frac{B-A}{A\cdot C} = 1.51653$$

$$R_1-\frac{N_3\cdot(N_1-N_2)}{N_2} = 0.00000$$

$$R_1-\frac{B-A}{A\cdot C} = 0.00000$$

$$\frac{B-A}{A\cdot C}-\frac{N_3\cdot(N_1-N_2)}{N_2} = 0.00000$$

1CST4R2

Given.

Unit. $ab := 1$ $N_1 := 4.15436$

$N_2 := 3.18798$ $N_3 := 2.68162$

$N_4 := 1.41721$ $N_5 := 1.90952$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$gN_2 := 1 - \frac{N_2}{N_1} \qquad ac := N_3 \cdot gN_2$$

$$cd := \frac{N_4 - ac}{N_4} \qquad bf := N_5 \cdot cd$$

$$R_1 := \frac{bf}{1 - cd} \qquad R_1 = 2.428758$$

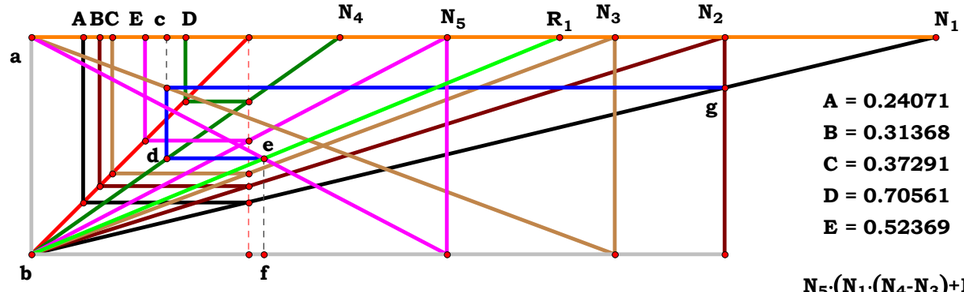
Definitions.

$$R_1 - \frac{N_5 \cdot \left[N_1 \cdot \left(N_4 - N_3\right) + N_2 \cdot N_3\right]}{N_3 \cdot \left(N_1 - N_2\right)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{(A \cdot D + B \cdot C - B \cdot D)}{D \cdot E \cdot (B - A)} = 0$$



$ab = 1.00000$

$A = 0.24071$ $N_1 = 4.15436$

$B = 0.31368$ $N_2 = 3.18798$

$C = 0.37291$ $N_3 = 2.68162$

$D = 0.70561$ $N_4 = 1.41721$

$E = 0.52369$ $N_5 = 1.90952$

$R_1 = 2.42872$

$$\frac{N_5 \cdot (N_1 \cdot (N_4 - N_3) + N_2 \cdot N_3)}{N_3 \cdot (N_1 - N_2)} = 2.42872$$

$$\frac{(A \cdot D + B \cdot C) - B \cdot D}{D \cdot E \cdot (B - A)} = 2.42872$$

$$R_1 - \frac{N_5 \cdot (N_1 \cdot (N_4 - N_3) + N_2 \cdot N_3)}{N_3 \cdot (N_1 - N_2)} = 0.00000$$

$$R_1 - \frac{(A \cdot D + B \cdot C) - B \cdot D}{D \cdot E \cdot (B - A)} = 0.00000$$

$$\frac{(A \cdot D + B \cdot C) - B \cdot D}{D \cdot E \cdot (B - A)} - \frac{N_5 \cdot (N_1 \cdot (N_4 - N_3) + N_2 \cdot N_3)}{N_3 \cdot (N_1 - N_2)} = 0.00000$$

ab = 1.00000

A = 0.24071
B = 0.31368
C = 0.37291
D = 0.70561
E = 0.52369

N_1 = 4.15436
N_2 = 3.18798
N_3 = 2.68162
N_4 = 1.41721
N_5 = 1.90952

$R_1 = 2.42872$

$$\frac{N_5\cdot(N_1\cdot(N_4-N_3)+N_2\cdot N_3)}{N_3\cdot(N_1-N_2)} = 2.42872$$

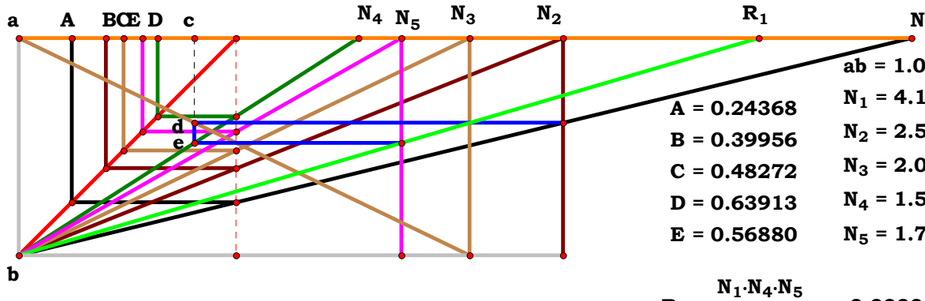
$$\frac{(A\cdot D+B\cdot C)-B\cdot D}{D\cdot E\cdot(B-A)} = 2.42872$$

$$R_1-\frac{N_5\cdot(N_1\cdot(N_4-N_3)+N_2\cdot N_3)}{N_3\cdot(N_1-N_2)} = 0.00000$$

$$R_1-\frac{(A\cdot D+B\cdot C)-B\cdot D}{D\cdot E\cdot(B-A)} = 0.00000$$

$$\frac{(A\cdot D+B\cdot C)-B\cdot D}{D\cdot E\cdot(B-A)}-\frac{N_5\cdot(N_1\cdot(N_4-N_3)+N_2\cdot N_3)}{N_3\cdot(N_1-N_2)} = 0.00000$$

1CST4R3



ab = 1.00000
A = 0.24368
B = 0.39956
C = 0.48272
D = 0.63913
E = 0.56880
N_1 = 4.10374
N_2 = 2.50277
N_3 = 2.07159
N_4 = 1.56463
N_5 = 1.75809

R_1 = 3.40365

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 3.40365$$

$$\frac{B \cdot C}{D \cdot E \cdot (B - A)} = 3.40365$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{B \cdot C}{D \cdot E \cdot (B - A)} = 0.00000$$

$$\frac{B \cdot C}{D \cdot E \cdot (B - A)} - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

Given.

Unit. $ab := 1$ $N_1 := 4.10374$

$N_2 := 2.50277$ $N_3 := 2.07159$

$N_4 := 1.56463$ $N_5 := 1.75809$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$cd := 1 - \frac{N_2}{N_1} \qquad ac := N_3 \cdot cd$$

$$ce := \frac{N_4 - ac}{N_4} \qquad R_1 := \frac{N_5}{1 - ce}$$

$R_1 = 3.403655$

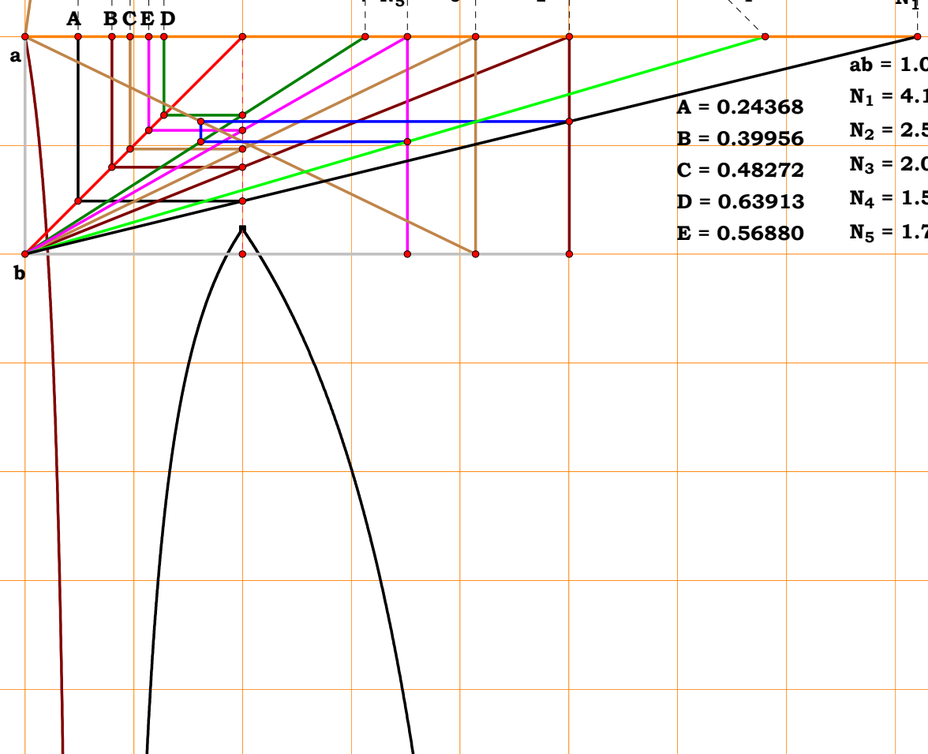
Definitions.

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{B \cdot C}{D \cdot E \cdot (B - A)} = 0$$



ab = 1.00000
N_1 = 4.10374
N_2 = 2.50277
N_3 = 2.07159
N_4 = 1.56463
N_5 = 1.75809

A = 0.24368
B = 0.39956
C = 0.48272
D = 0.63913
E = 0.56880

$R_1 = 3.40365$

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 3.40365$$

$$\frac{B \cdot C}{D \cdot E \cdot (B-A)} = 3.40365$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{B \cdot C}{D \cdot E \cdot (B-A)} = 0.00000$$

$$\frac{B \cdot C}{D \cdot E \cdot (B-A)} - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

1CST4R4

Given.

Unit. $ab := 1$ $N_1 := 3.31092$

$N_2 := 1.56656$ $N_3 := 4.53608$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$cd := \frac{N_3}{N_1 + N_3}$ $R_1 := \frac{N_2}{cd}$

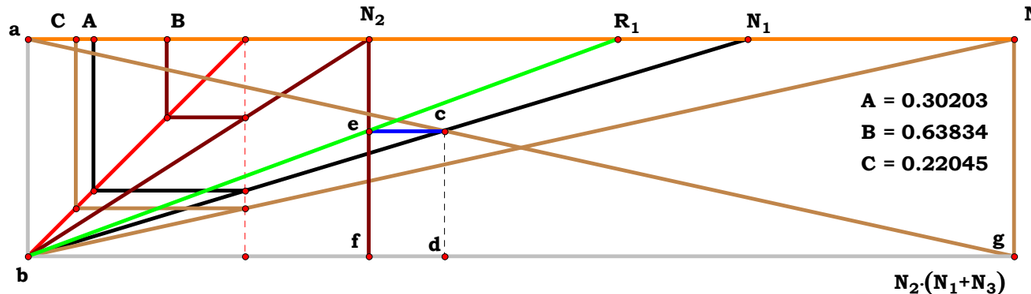
$R_1 = 2.710004$

Definitions.

$R_1 - \frac{N_2 \cdot (N_1 + N_3)}{N_3} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$R_1 - \frac{(A + C)}{A \cdot B} = 0$



A = 0.30203
B = 0.63834
C = 0.22045

ab = 1.00000
N_1 = 3.31092
N_2 = 1.56656
N_3 = 4.53608

$R_1 = 2.71001$

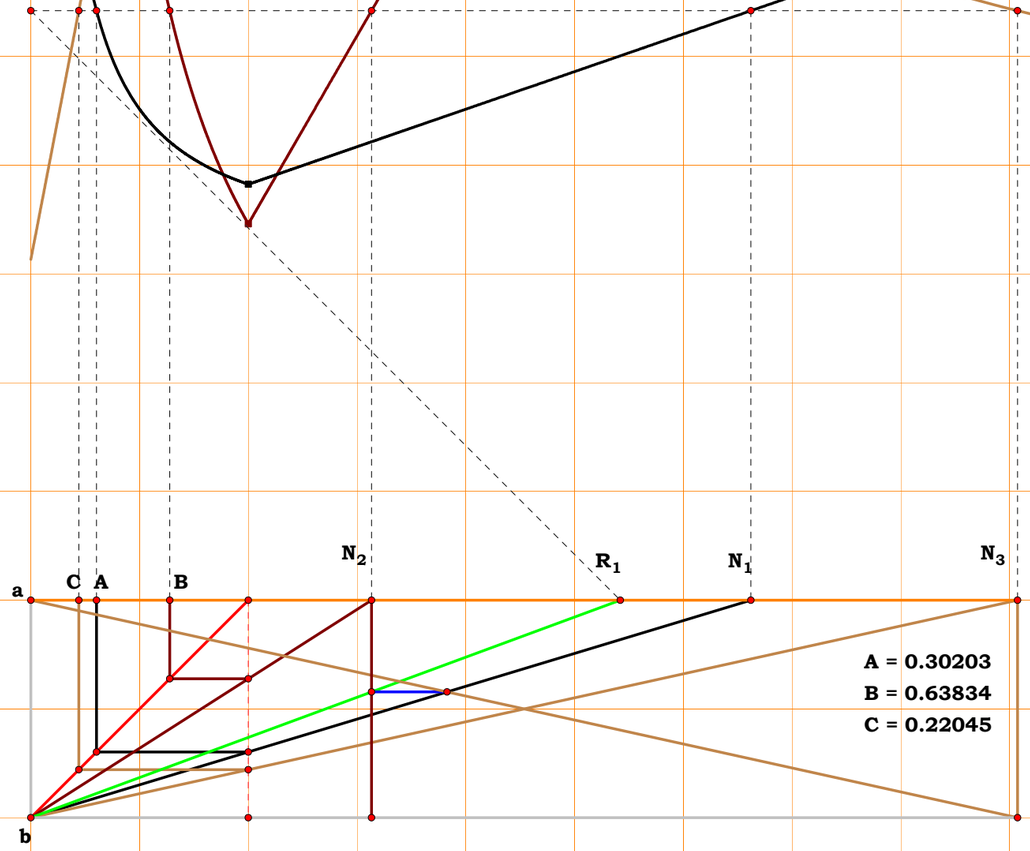
$\frac{N_2 \cdot (N_1 + N_3)}{N_3} = 2.71001$

$\frac{A+C}{A \cdot B} = 2.71001$

$R_1 - \frac{N_2 \cdot (N_1 + N_3)}{N_3} = 0.00000$

$R_1 - \frac{A+C}{A \cdot B} = 0.00000$

$\frac{A+C}{A \cdot B} - \frac{N_2 \cdot (N_1 + N_3)}{N_3} = 0.00000$



A = 0.30203
B = 0.63834
C = 0.22045

ab = 1.00000
N_1 = 3.31092
N_2 = 1.56656
N_3 = 4.53608

$R_1 = 2.71001$

$$\frac{N_2\cdot(N_1+N_3)}{N_3} = 2.71001$$

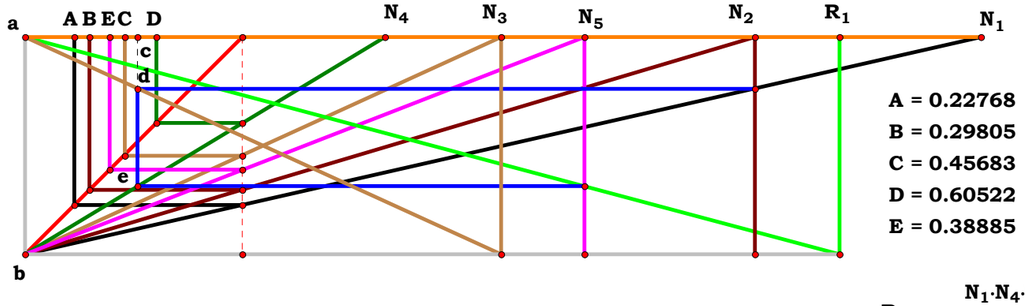
$$\frac{A+C}{A\cdot B} = 2.71001$$

$$R_1-\frac{N_2\cdot(N_1+N_3)}{N_3} = 0.00000$$

$$R_1-\frac{A+C}{A\cdot B} = 0.00000$$

$$\frac{A+C}{A\cdot B}-\frac{N_2\cdot(N_1+N_3)}{N_3} = 0.00000$$

1CST4R5



A = 0.22768
B = 0.29805
C = 0.45683
D = 0.60522
E = 0.38885

ab = 1.00000
N_1 = 4.39209
N_2 = 3.35517
N_3 = 2.18899
N_4 = 1.65230
N_5 = 2.57170

R_1 = 3.74214

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} = 3.74214$$

$$\frac{B \cdot C}{E \cdot ((A \cdot D + B \cdot C) - B \cdot D)} = 3.74214$$

Given.

Unit. $ab := 1$ $N_1 := 4.39209$

$N_2 := 3.35517$ $N_3 := 2.18899$

$N_4 := 1.65230$ $N_5 := 2.57170$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$cd := 1 - \frac{N_2}{N_1} \qquad ac := N_3 \cdot cd$$

$$ce := \frac{N_4 - ac}{N_4} \qquad R_1 := \frac{N_5}{ce}$$

$R_1 = 3.742139$

Definitions.

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

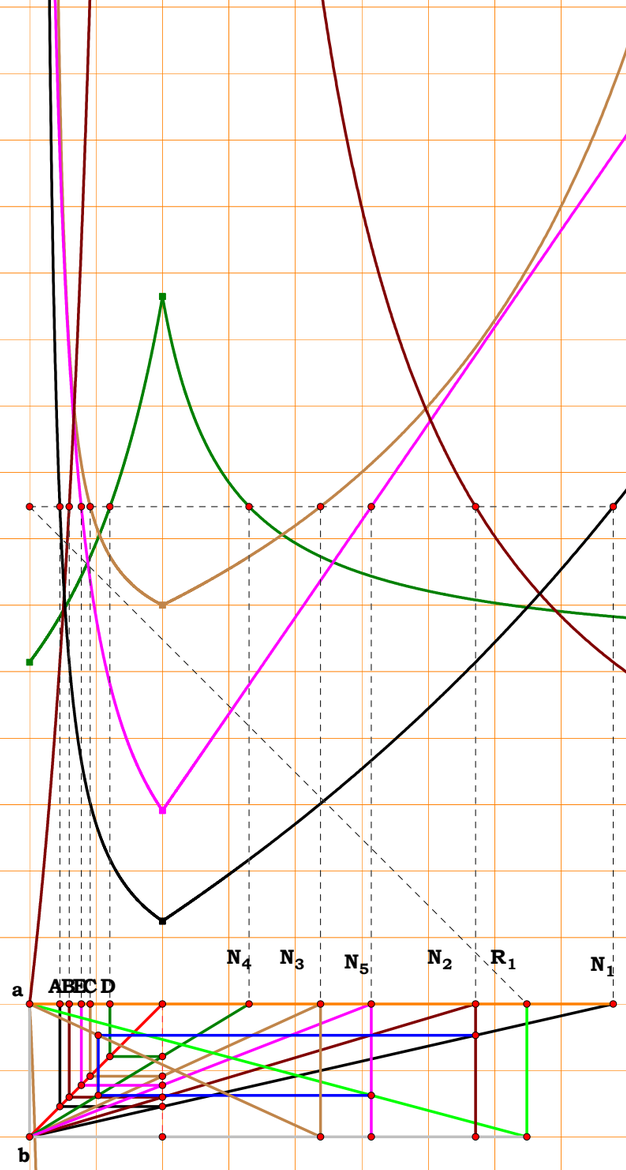
$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{B \cdot C}{E \cdot (A \cdot D + B \cdot C - B \cdot D)} = 0$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} = 0.00000$$

$$R_1 - \frac{B \cdot C}{E \cdot ((A \cdot D + B \cdot C) - B \cdot D)} = 0.00000$$

$$\frac{B \cdot C}{E \cdot ((A \cdot D + B \cdot C) - B \cdot D)} - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_3 \cdot (N_1 - N_2)} = 0.00000$$



A = 0.22768	ab = 1.00000	$R_1 = 3.74214$	$R_1-\frac{N_1\cdot N_4\cdot N_5}{N_1\cdot N_4-N_3\cdot(N_1-N_2)} = 0.00000$
B = 0.29805	$N_1 = 4.39209$	$\frac{N_1\cdot N_4\cdot N_5}{N_1\cdot N_4-N_3\cdot(N_1-N_2)} = 3.74214$	$R_1-\frac{B\cdot C}{E\cdot((A\cdot D+B\cdot C)-B\cdot D)} = 0.00000$
C = 0.45683	$N_2 = 3.35517$	$\frac{B\cdot C}{E\cdot((A\cdot D+B\cdot C)-B\cdot D)} = 3.74214$	$\frac{B\cdot C}{E\cdot((A\cdot D+B\cdot C)-B\cdot D)}-\frac{N_1\cdot N_4\cdot N_5}{N_1\cdot N_4-N_3\cdot(N_1-N_2)} = 0.00000$
D = 0.60522	$N_3 = 2.18899$		
E = 0.38885	$N_4 = 1.65230$		
	$N_5 = 2.57170$		

1CST4R6

Given.

Unit. $ab := 1$ $N_1 := 4.43356$

$N_2 := 2.11714$ $N_3 := 2.57080$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

Descriptions.

$cd := \frac{N_1}{N_1 + N_3}$ $R_1 := \frac{N_2}{cd}$

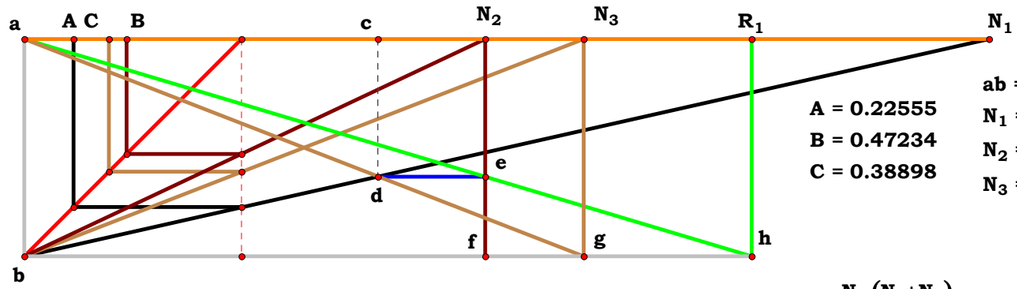
$R_1 = 3.344764$

Definitions.

$$R_1 - \frac{N_2 \cdot (N_1 + N_3)}{N_1} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$$R_1 - \frac{(A + C)}{B \cdot C} = 0$$



A = 0.22555
B = 0.47234
C = 0.38898

ab = 1.00000
N_1 = 4.43356
N_2 = 2.11714
N_3 = 2.57080

$R_1 = 3.34477$

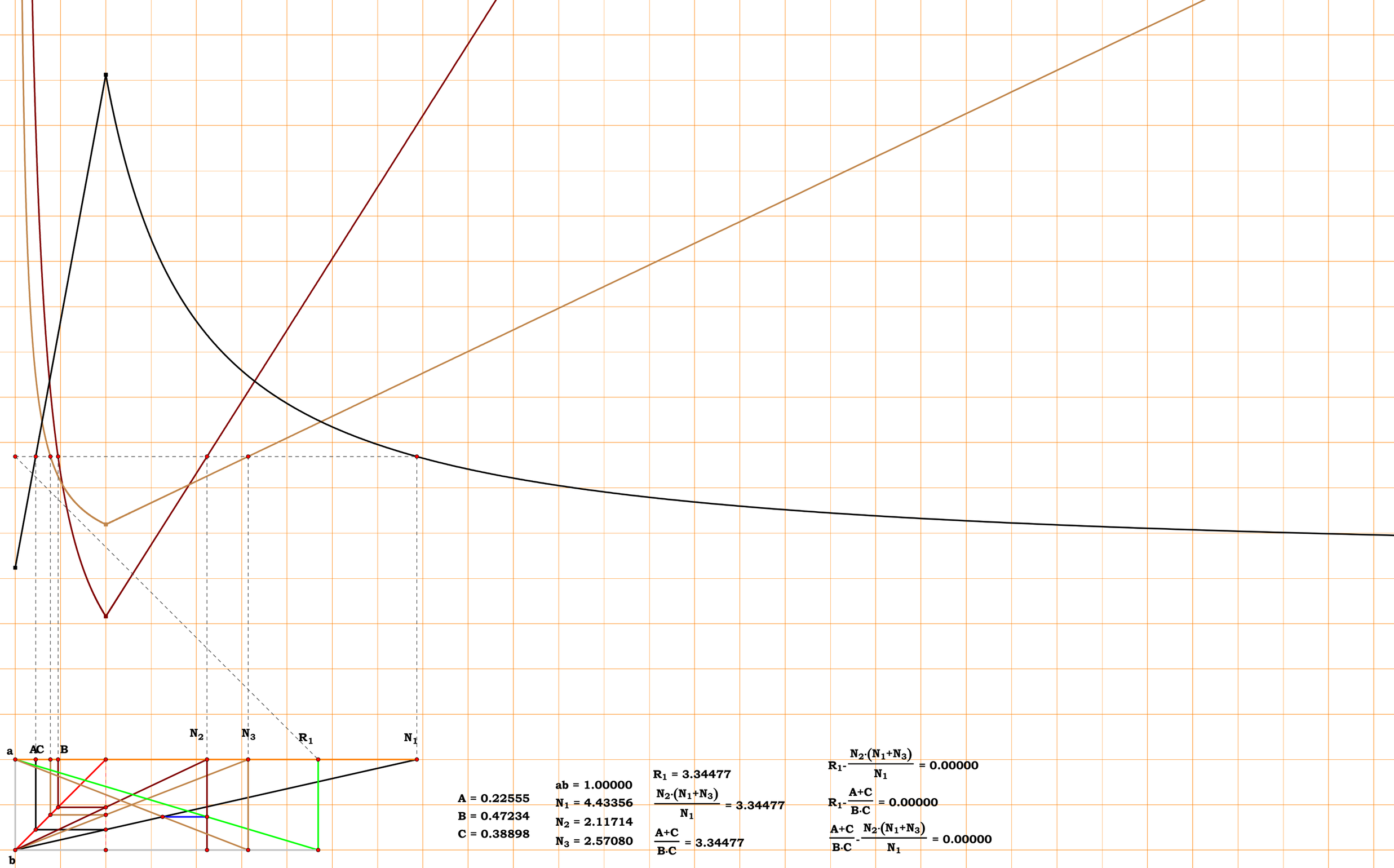
$\frac{N_2 \cdot (N_1 + N_3)}{N_1} = 3.34477$

$\frac{A+C}{B \cdot C} = 3.34477$

$$R_1 - \frac{N_2 \cdot (N_1 + N_3)}{N_1} = 0.00000$$

$$R_1 - \frac{A+C}{B \cdot C} = 0.00000$$

$$\frac{A+C}{B \cdot C} - \frac{N_2 \cdot (N_1 + N_3)}{N_1} = 0.00000$$



$A = 0.22555$
$B = 0.47234$
$C = 0.38898$

$ab = 1.00000$
$N_1 = 4.43356$
$N_2 = 2.11714$
$N_3 = 2.57080$

$R_1 = 3.34477$

$\frac{N_2 \cdot (N_1 + N_3)}{N_1} = 3.34477$

$\frac{A+C}{B \cdot C} = 3.34477$

$R_1 - \frac{N_2 \cdot (N_1 + N_3)}{N_1} = 0.00000$

$R_1 - \frac{A+C}{B \cdot C} = 0.00000$

$\frac{A+C}{B \cdot C} - \frac{N_2 \cdot (N_1 + N_3)}{N_1} = 0.00000$

1CST5R0

Given.

Unit. $ab := 1 \quad N_1 := 1.91252 \quad N_2 := 3.75256$

$N_3 := 2.36821 \quad N_4 := 2.82328 \quad N_5 := 1.68340$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$

Descriptions.

$bj := \frac{N_1 \cdot N_2}{N_1 + N_2} \quad hj := \frac{bj}{N_1}$

$bg := N_3 \cdot hj \quad fg := \frac{bg}{N_4}$

$bd := N_5 \cdot fg \quad R_1 := \frac{bd}{1 - fg}$

$R_1 = 2.104908 \quad R_2 := \frac{1}{R_1}$

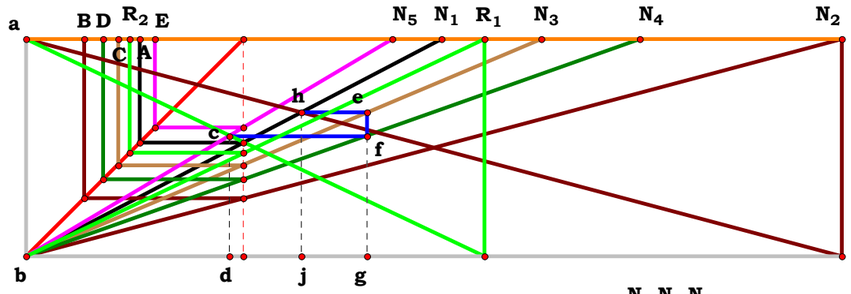
Definitions.

$R_1 - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0 \quad N_5 - \frac{1}{E} = 0$

$R_1 - \frac{A \cdot D}{E \cdot (A \cdot C - A \cdot D + B \cdot C)} = 0 \quad R_2 - \frac{E \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot D} = 0$



$A = 0.52287$
$B = 0.26648$
$C = 0.42226$
$D = 0.35420$
$E = 0.59403$

$ab = 1.00000$
$N_1 = 1.91252$
$N_2 = 3.75256$
$N_3 = 2.36821$
$N_4 = 2.82328$
$N_5 = 1.68340$

$R_1 = 2.10491$

$\frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 2.10491$

$\frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} = 2.10491$

$R_1 - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0.00000$

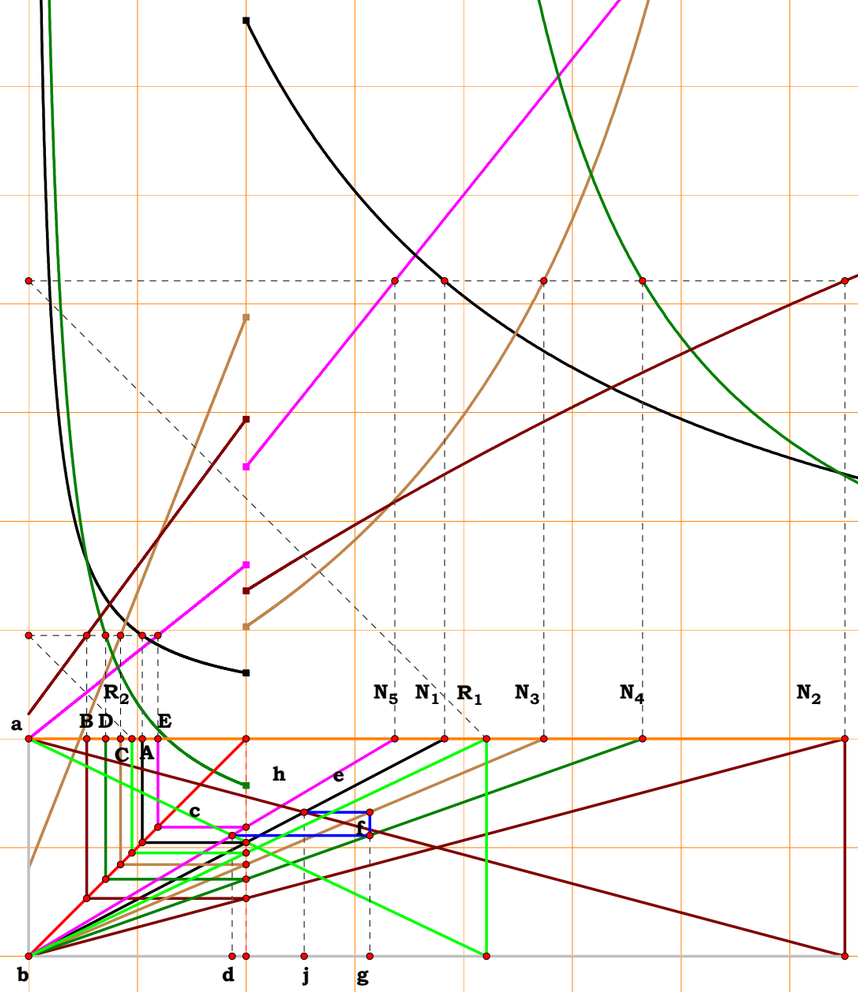
$R_1 - \frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} = 0.00000$

$\frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0.00000$

$R_2 = 0.47508$

$\frac{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)}{A \cdot D} = 0.47508$

$R_2 - \frac{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)}{A \cdot D} = 0.00000$



A = 0.52287
B = 0.26648
C = 0.42226
D = 0.35420
E = 0.59403

ab = 1.00000
N_1 = 1.91252
N_2 = 3.75256
N_3 = 2.36821
N_4 = 2.82328
N_5 = 1.68340

$R_1 = 2.10491$

$$\frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 2.10491$$

$$\frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} = 2.10491$$

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0.00000$$

$$R_1 - \frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} = 0.00000$$

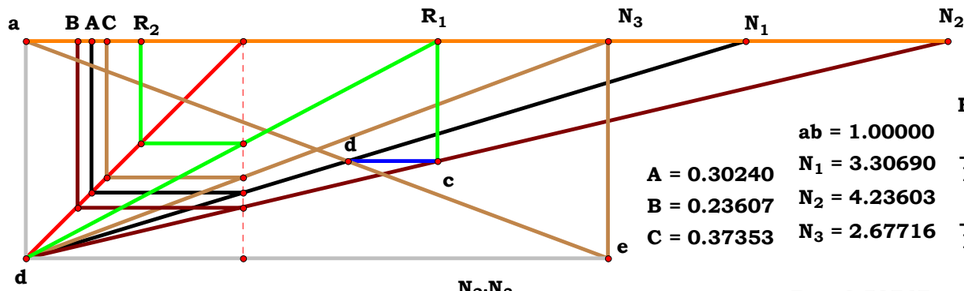
$$\frac{A \cdot D}{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)} - \frac{N_2 \cdot N_3 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot (N_3 - N_4)} = 0.00000$$

$R_2 = 0.47508$

$$\frac{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)}{A \cdot D} = 0.47508$$

$$R_2 - \frac{E \cdot ((A \cdot C - A \cdot D) + B \cdot C)}{A \cdot D} = 0.00000$$

1CST5R1



A = 0.30240
B = 0.23607
C = 0.37353

ab = 1.00000
N1 = 3.30690
N2 = 4.23603
N3 = 2.67716

R1 = 1.89512

$\frac{N_2 \cdot N_3}{N_1+N_3} = 1.89512$

$\frac{A}{B\cdot(A+C)} = 1.89512$

Given.

Unit. $ab := 1 \quad N_1 := 3.30690$

$N_2 := 4.23603 \quad N_3 := 2.67716$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$

Descriptions.

$ch := \frac{N_1}{N_1 + N_3} \quad RN_2 := N_2 \cdot ch \quad R_1 := N_2 - RN_2$

$R_1 = 1.895123 \quad R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2 \cdot N_3}{N_1 + N_3} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0$

$R_1 - \frac{A}{B \cdot (A + C)} = 0 \quad R_2 - \frac{B \cdot (A + C)}{A} = 0$

$R_1 - \frac{N_2 \cdot N_3}{N_1 + N_3} = 0.00000$

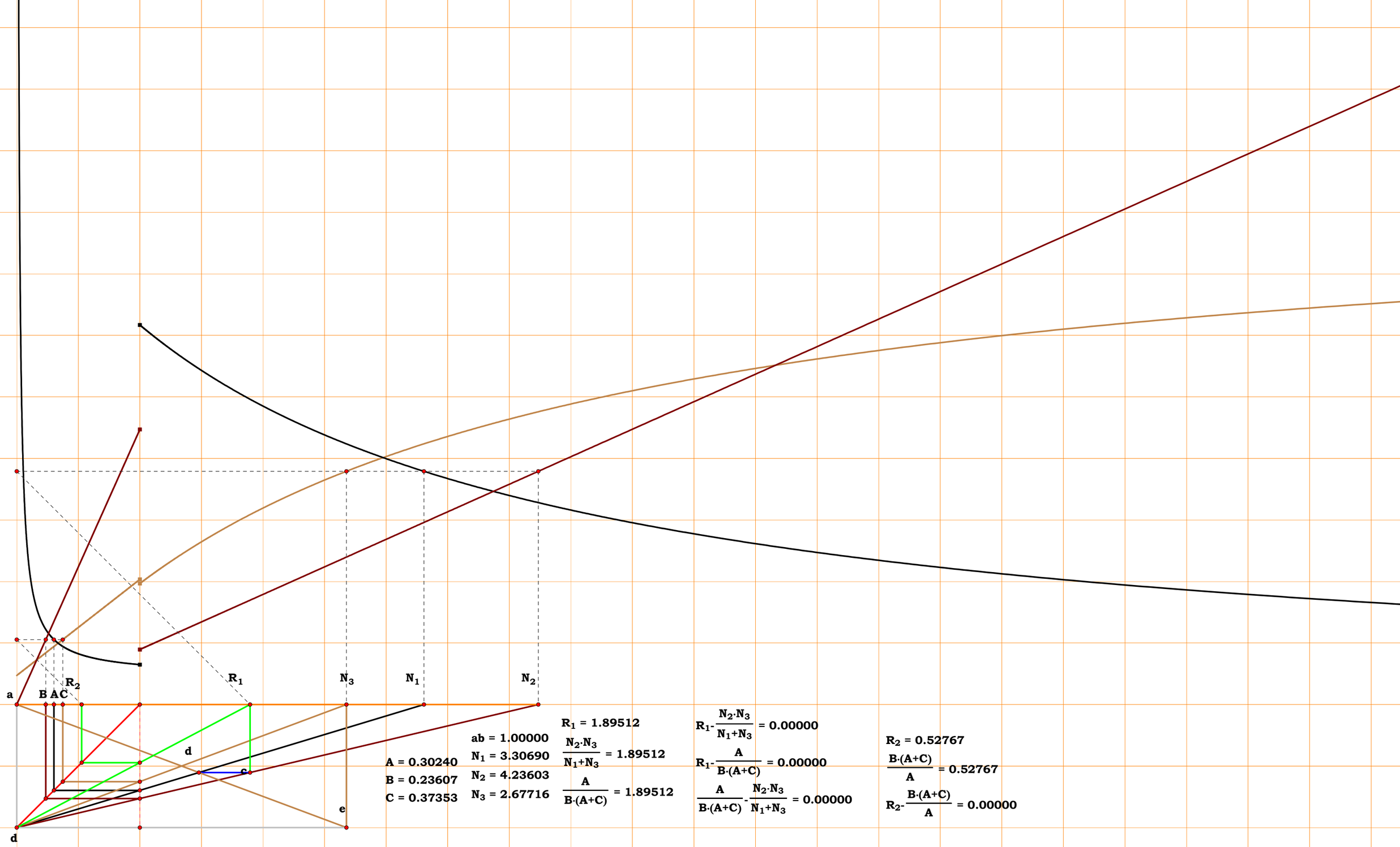
$R_1 - \frac{A}{B \cdot (A + C)} = 0.00000$

$\frac{A}{B \cdot (A + C)} - \frac{N_2 \cdot N_3}{N_1 + N_3} = 0.00000$

R2 = 0.52767

$\frac{B \cdot (A + C)}{A} = 0.52767$

$R_2 - \frac{B \cdot (A + C)}{A} = 0.00000$



A = 0.30240
B = 0.23607
C = 0.37353

ab = 1.00000
N_1 = 3.30690
N_2 = 4.23603
N_3 = 2.67716

$R_1 = 1.89512$

$\frac{N_2 \cdot N_3}{N_1+N_3} = 1.89512$

$\frac{A}{B \cdot (A+C)} = 1.89512$

$R_1 - \frac{N_2 \cdot N_3}{N_1+N_3} = 0.00000$

$R_1 - \frac{A}{B \cdot (A+C)} = 0.00000$

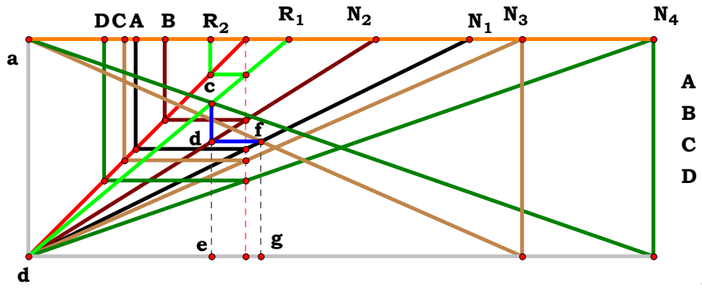
$\frac{A}{B \cdot (A+C)} - \frac{N_2 \cdot N_3}{N_1+N_3} = 0.00000$

$R_2 = 0.52767$

$\frac{B \cdot (A+C)}{A} = 0.52767$

$R_2 - \frac{B \cdot (A+C)}{A} = 0.00000$

1CST5R2



A = 0.49392
B = 0.62629
C = 0.44107
D = 0.34799

ac = 1.00000
N_1 = 2.02461
N_2 = 1.59672
N_3 = 2.26723
N_4 = 2.87365

R_1 = 1.19394

$$\frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 1.19394$$

$$\frac{A}{(A \cdot B - A \cdot D) + B \cdot C} = 1.19394$$

Given.

Unit. $ab := 1$ $N_1 := 2.02461$

$N_2 := 1.59672$ $N_3 := 2.26723$

$N_4 := 2.87365$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$bg := \frac{N_1 \cdot N_3}{N_1 + N_3} \qquad fg := \frac{bg}{N_1}$$

$$be := N_2 \cdot fg \qquad ce := \frac{N_4 - be}{N_4} \qquad R_1 := \frac{be}{ce}$$

$R_1 = 1.193946$ $\qquad R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{A}{A \cdot B - A \cdot D + B \cdot C} = 0 \qquad R_2 - \frac{A \cdot B - A \cdot D + B \cdot C}{A} = 0$$

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0.00000$$

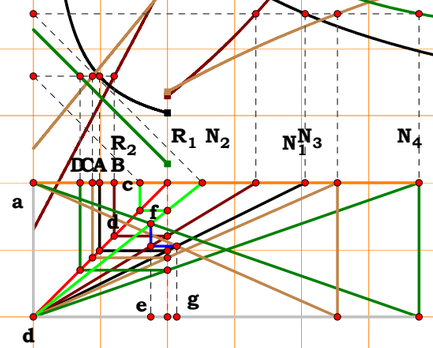
$$R_1 - \frac{A}{(A \cdot B - A \cdot D) + B \cdot C} = 0.00000$$

$$\frac{A}{(A \cdot B - A \cdot D) + B \cdot C} - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0.00000$$

$R_2 = 0.83756$

$$\frac{(A \cdot B - A \cdot D) + B \cdot C}{A} = 0.83756$$

$$R_2 - \frac{(A \cdot B - A \cdot D) + B \cdot C}{A} = 0.00000$$



A = 0.49392
B = 0.60306
C = 0.44107
D = 0.34799

ac = 1.00000
N_1 = 2.02461
N_2 = 1.65820
N_3 = 2.26723
N_4 = 2.87365

$R_1 = 1.26008$

$$\frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 1.26008$$

$$\frac{A}{(A \cdot B - A \cdot D) + B \cdot C} = 1.26008$$

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0.00000$$

$$R_1 - \frac{A}{(A \cdot B - A \cdot D) + B \cdot C} = 0.00000$$

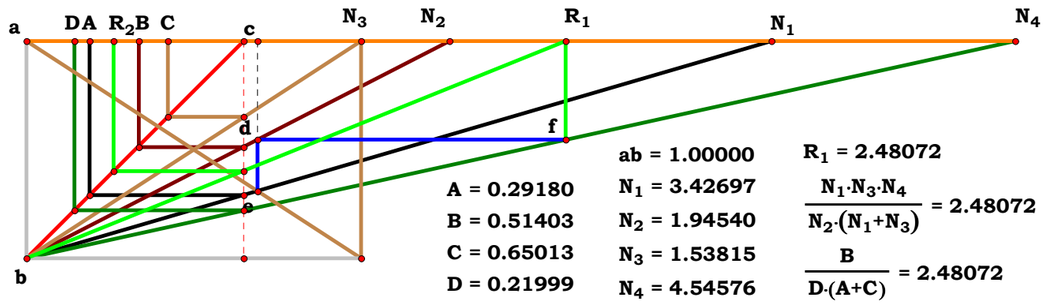
$$\frac{A}{(A \cdot B - A \cdot D) + B \cdot C} - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot (N_2 - N_4)} = 0.00000$$

$R_2 = 0.79360$

$$\frac{(A \cdot B - A \cdot D) + B \cdot C}{A} = 0.79360$$

$$R_2 - \frac{(A \cdot B - A \cdot D) + B \cdot C}{A} = 0.00000$$

1CST5R3



Given.

Unit. $ab := 1 \quad N_1 := 3.42697$

$N_2 := 1.94540 \quad N_3 := 1.53815 \quad N_4 := 4.54576$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$ac := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad cd := 1 - \frac{ac}{N_2}$

$R1N_4 := N_4 \cdot cd \quad R_1 := N_4 - R1N_4$

$R_1 = 2.480715 \quad R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{B}{D \cdot (A + C)} = 0 \quad R_2 - \frac{D \cdot (A + C)}{B} = 0$

$A = 0.29180 \quad B = 0.51403 \quad C = 0.65013 \quad D = 0.21999$

$ab = 1.00000 \quad N_1 = 3.42697 \quad N_2 = 1.94540 \quad N_3 = 1.53815 \quad N_4 = 4.54576$

$R_1 = 2.48072$

$\frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 2.48072$

$\frac{B}{D \cdot (A + C)} = 2.48072$

$R_1 - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0.00000$

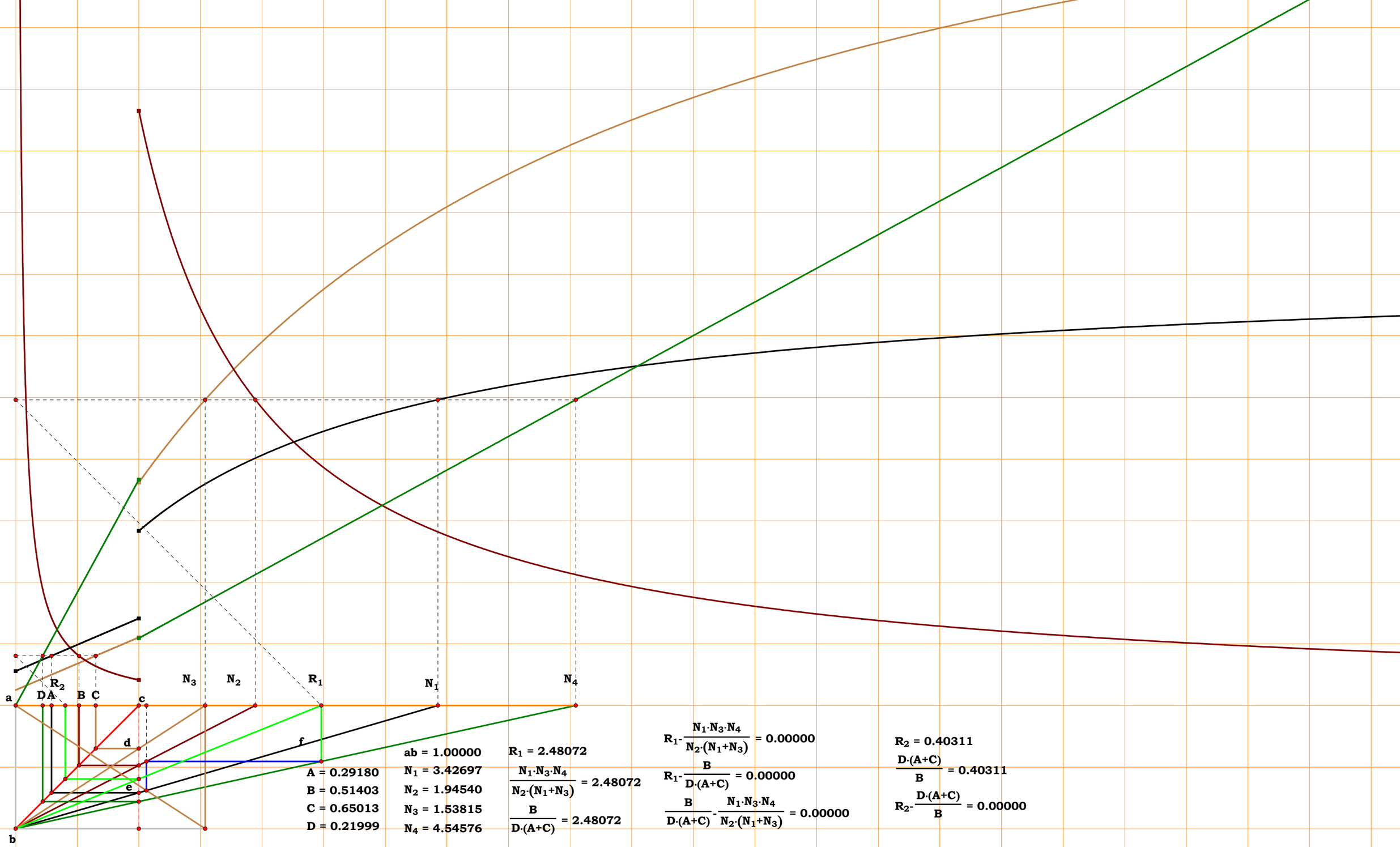
$R_1 - \frac{B}{D \cdot (A + C)} = 0.00000$

$\frac{B}{D \cdot (A + C)} - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0.00000$

$R_2 = 0.40311$

$\frac{D \cdot (A + C)}{B} = 0.40311$

$R_2 - \frac{D \cdot (A + C)}{B} = 0.00000$



$A = 0.29180$
$B = 0.51403$
$C = 0.65013$
$D = 0.21999$

$ab = 1.00000$
$N_1 = 3.42697$
$N_2 = 1.94540$
$N_3 = 1.53815$
$N_4 = 4.54576$

$R_1 = 2.48072$

$$\frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 2.48072$$

$$\frac{B}{D \cdot (A+C)} = 2.48072$$

$$R_1 - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0.00000$$

$$R_1 - \frac{B}{D \cdot (A+C)} = 0.00000$$

$$\frac{B}{D \cdot (A+C)} - \frac{N_1 \cdot N_3 \cdot N_4}{N_2 \cdot (N_1 + N_3)} = 0.00000$$

$R_2 = 0.40311$

$$\frac{D \cdot (A+C)}{B} = 0.40311$$

$$R_2 - \frac{D \cdot (A+C)}{B} = 0.00000$$

1CST5R4

Given.

Unit. $ab := 1 \quad N_1 := 2.58090$

$N_2 := 2.20853$

$N_3 := 5.16448 \quad N_4 := 2.99428$

$N_5 := 1.83578 \quad N_6 := 3.58898$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$

$D := \frac{1}{N_4} \quad E := \frac{1}{N_5} \quad F := \frac{1}{N_6}$

Descriptions.

$bk := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad jk := 1 - \frac{N_1 - bk}{N_1} \quad bh := N_2 \cdot jk$

$cd := 1 - \frac{N_4 - bh}{N_4} \quad bd := N_5 \cdot cd \quad bg := \frac{bd}{1 - cd}$

$bf := \frac{bg \cdot N_6}{bg + N_6} \quad ef := \frac{bf}{N_6} \quad R_1 := \frac{bh}{ef}$

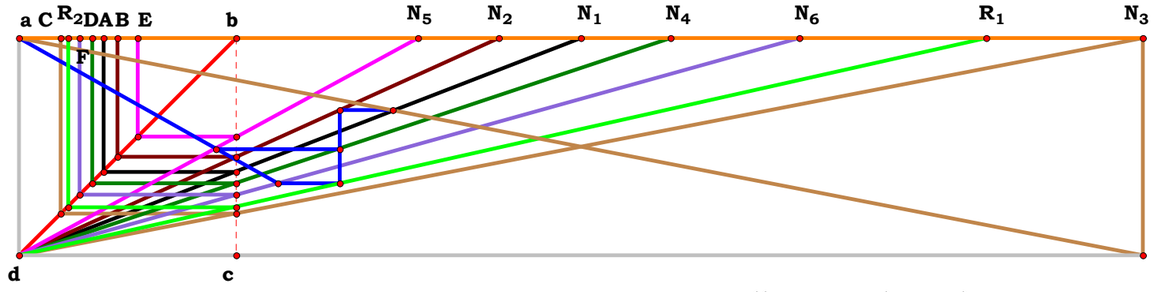
$R_1 = 4.447502 \quad R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot \left(N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4\right)}{N_5 \cdot \left(N_1 + N_3\right)} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0 \quad N_5 - \frac{1}{E} = 0 \quad N_6 - \frac{1}{F} = 0$

$R_1 - \frac{[B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]}{B \cdot D \cdot F \cdot (A + C)} = 0 \quad R_2 - \frac{B \cdot D \cdot F \cdot (A + C)}{[B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]} = 0$



A = 0.38746
B = 0.45279
C = 0.19363
D = 0.33397
E = 0.54473
F = 0.27863

ab = 1.00000
N1 = 2.58090
N2 = 2.20853
N3 = 5.16448
N4 = 2.99428
N5 = 1.83578
N6 = 3.58898

$R_1 = 4.44750$

$\frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 4.44750$

$\frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} = 4.44750$

$R_1 - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 0.00000$

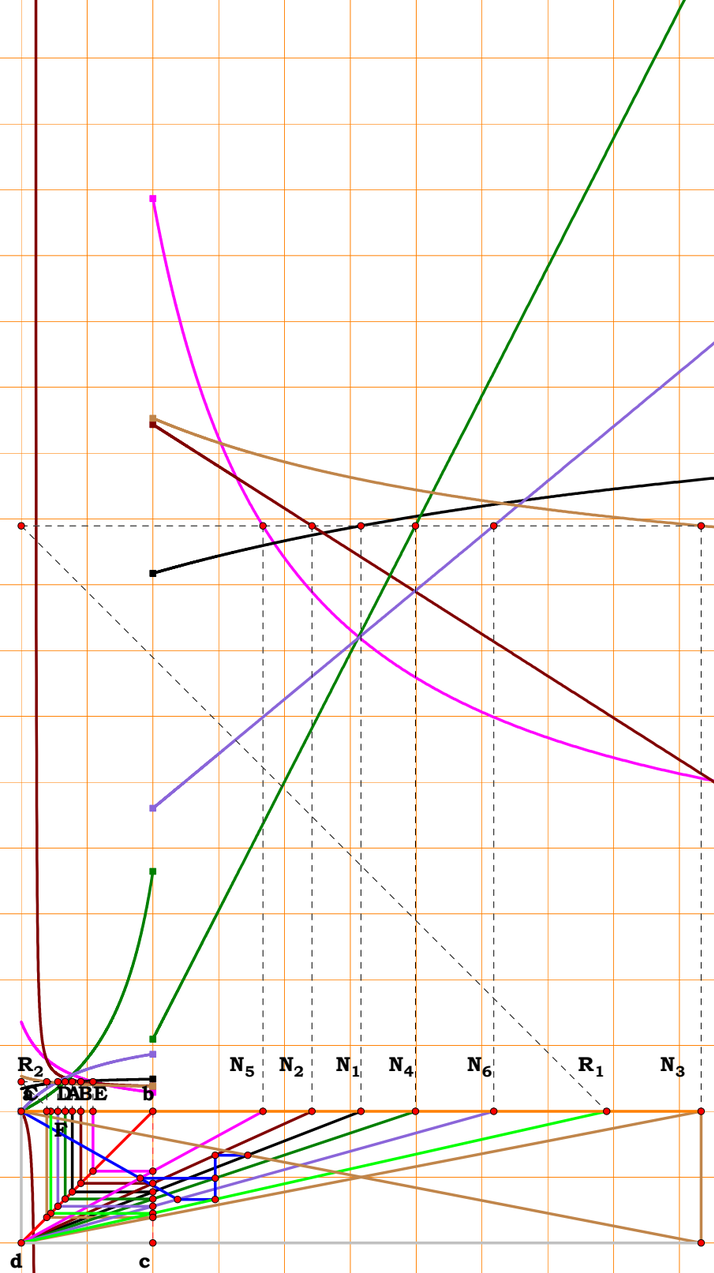
$R_1 - \frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} = 0.00000$

$\frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 0.00000$

$R_2 = 0.22485$

$\frac{B \cdot D \cdot F \cdot (A+C)}{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)} = 0.22485$

$R_2 - \frac{B \cdot D \cdot F \cdot (A+C)}{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)} = 0.00000$



$A = 0.38746$
$B = 0.45279$
$C = 0.19363$
$D = 0.33397$
$E = 0.54473$
$F = 0.27863$

$ab = 1.00000$
$N_1 = 2.58090$
$N_2 = 2.20853$
$N_3 = 5.16448$
$N_4 = 2.99428$
$N_5 = 1.83578$
$N_6 = 3.58898$

$R_2 = 0.22485$

$$\frac{B \cdot D \cdot F \cdot (A+C)}{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)} = 0.22485$$

$$R_2 - \frac{B \cdot D \cdot F \cdot (A+C)}{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)} = 0.00000$$

$R_1 = 4.44750$

$$\frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 4.44750$$

$$\frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} = 4.44750$$

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 0.00000$$

$$R_1 - \frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} = 0.00000$$

$$\frac{B \cdot E \cdot (A+C) - A \cdot D \cdot (E-F)}{B \cdot D \cdot F \cdot (A+C)} - \frac{N_2 \cdot N_3 \cdot N_5 + N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_5 \cdot (N_1 + N_3)} = 0.00000$$

1CST5R5

Given.

Unit. $ab := 1$ $N_1 := 2.48950$

$N_2 := 2.06291$ $N_3 := 5.11287$

$N_4 := 3.19587$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$

Descriptions.

$bh := \frac{N_1 \cdot N_3}{N_1 + N_3}$ $fh := \frac{bh}{N_1}$

$be := N_2 \cdot fh$ $de := \frac{be}{N_4}$ $R_1 := \frac{bh}{de}$

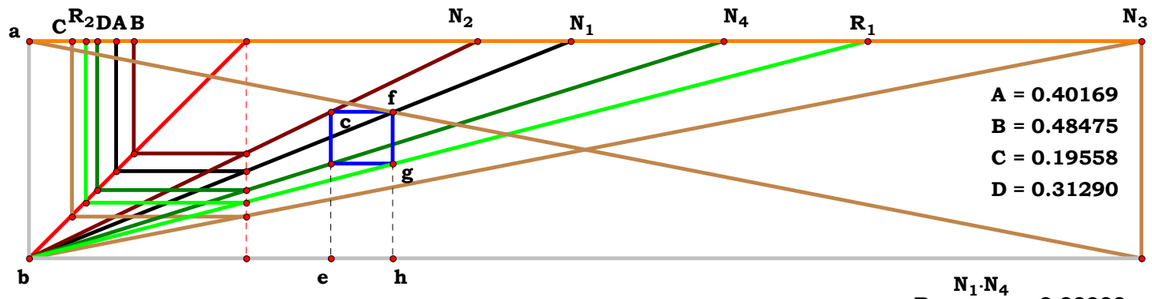
$R_1 = 3.856745$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1 \cdot N_4}{N_2} = 0$ **An invisible Variable.**

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$

$R_1 - \frac{B}{A \cdot D} = 0$ $R_2 - \frac{A \cdot D}{B} = 0$



A = 0.40169
B = 0.48475
C = 0.19558
D = 0.31290

ab = 1.00000
N_1 = 2.48950
N_2 = 2.06291
N_3 = 5.11287
N_4 = 3.19587

$R_1 = 3.85674$

$\frac{N_1 \cdot N_4}{N_2} = 3.85674$

$\frac{B}{A \cdot D} = 3.85674$

$R_1 - \frac{N_1 \cdot N_4}{N_2} = 0.00000$

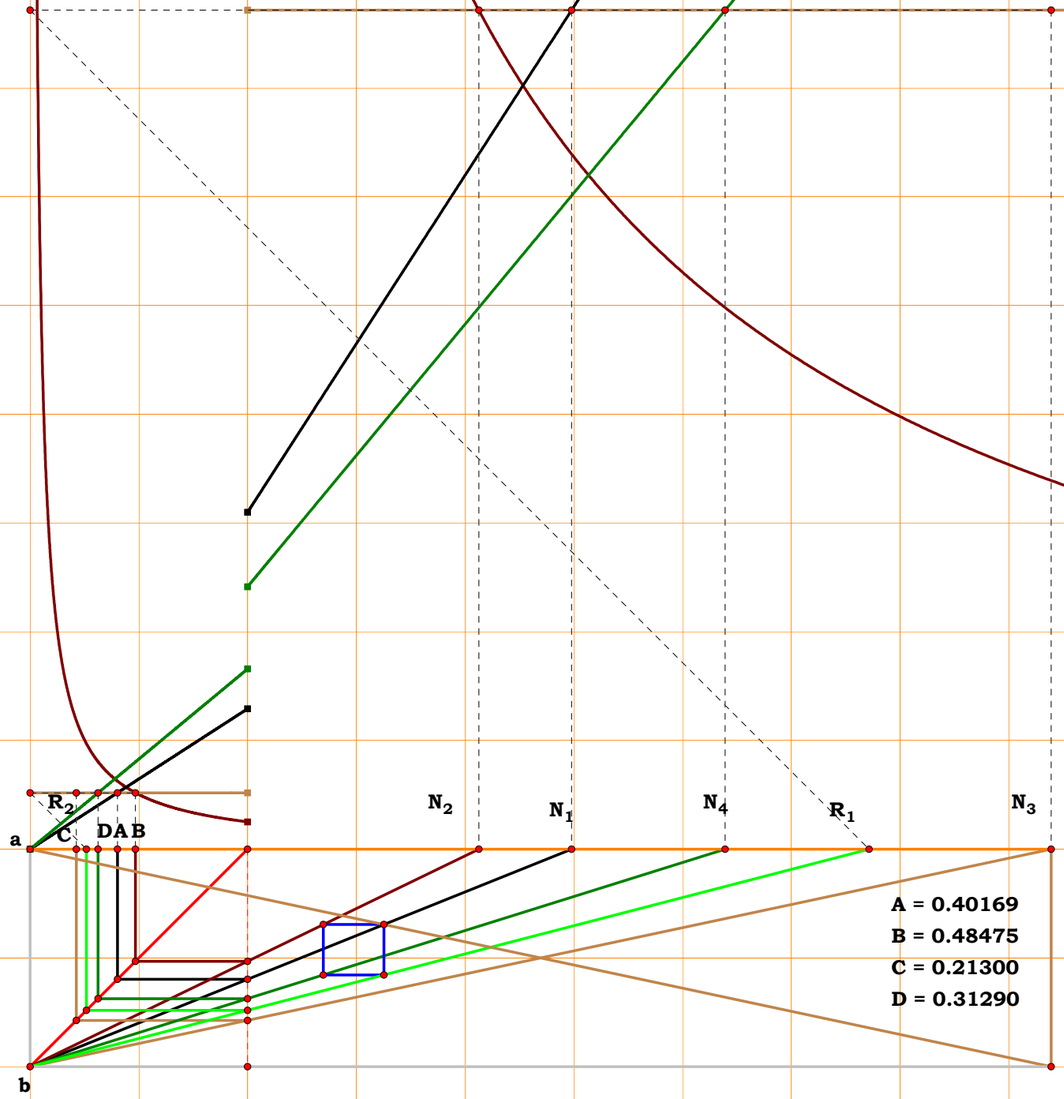
$R_1 - \frac{B}{A \cdot D} = 0.00000$

$\frac{B}{A \cdot D} - \frac{N_1 \cdot N_4}{N_2} = 0.00000$

$R_2 = 0.25929$

$\frac{A \cdot D}{B} = 0.25929$

$R_2 - \frac{A \cdot D}{B} = 0.00000$



A = 0.40169
B = 0.48475
C = 0.21300
D = 0.31290

ab = 1.00000
N_1 = 2.48950
N_2 = 2.06291
N_3 = 4.69479
N_4 = 3.19587

R_1 = 3.85674

$\frac{N_1 \cdot N_4}{N_2}$ = 3.85674

$\frac{B}{A \cdot D}$ = 3.85674

$R_1 - \frac{N_1 \cdot N_4}{N_2}$ = 0.00000

$R_1 - \frac{B}{A \cdot D}$ = 0.00000

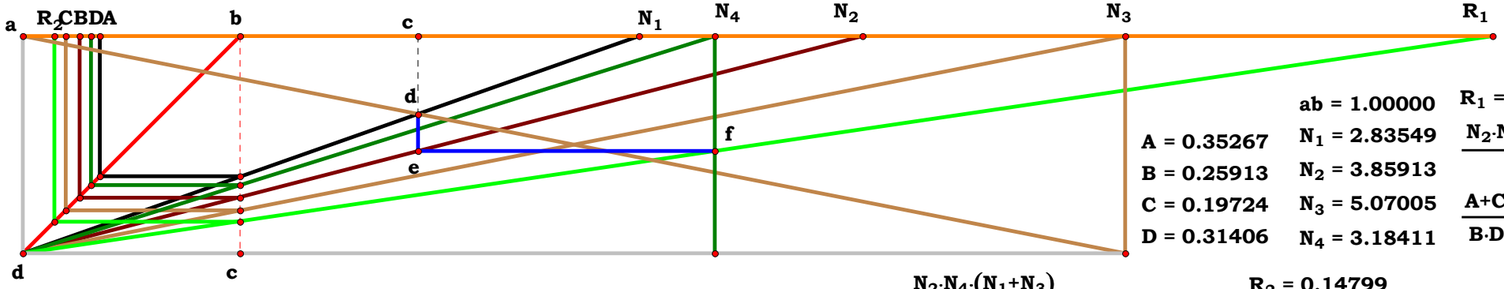
$\frac{B}{A \cdot D} - \frac{N_1 \cdot N_4}{N_2}$ = 0.00000

R_2 = 0.25929

$\frac{A \cdot D}{B}$ = 0.25929

$R_2 - \frac{A \cdot D}{B}$ = 0.00000

1CST5R6



Given.

Unit. $ab := 1 \quad N_1 := 2.83549$

$N_2 := 3.85913 \quad N_3 := 5.07005$

$N_4 := 3.18411$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$ac := \frac{N_1 \cdot N_3}{N_1 + N_3} \quad cd := \frac{N_2 - ac}{N_2} \quad R_1 := \frac{N_4}{1 - cd}$

$R_1 = 6.757229 \quad R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{(A + C)}{B \cdot D} = 0 \quad R_2 - \frac{B \cdot D}{(A + C)} = 0$

$A = 0.35267 \quad B = 0.25913 \quad C = 0.19724 \quad D = 0.31406$

$ab = 1.00000 \quad N_1 = 2.83549 \quad N_2 = 3.85913 \quad N_3 = 5.07005 \quad N_4 = 3.18411$

$R_1 = 6.75723$

$\frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 6.75723$

$\frac{A+C}{B \cdot D} = 6.75723$

$R_1 - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 0.00000$

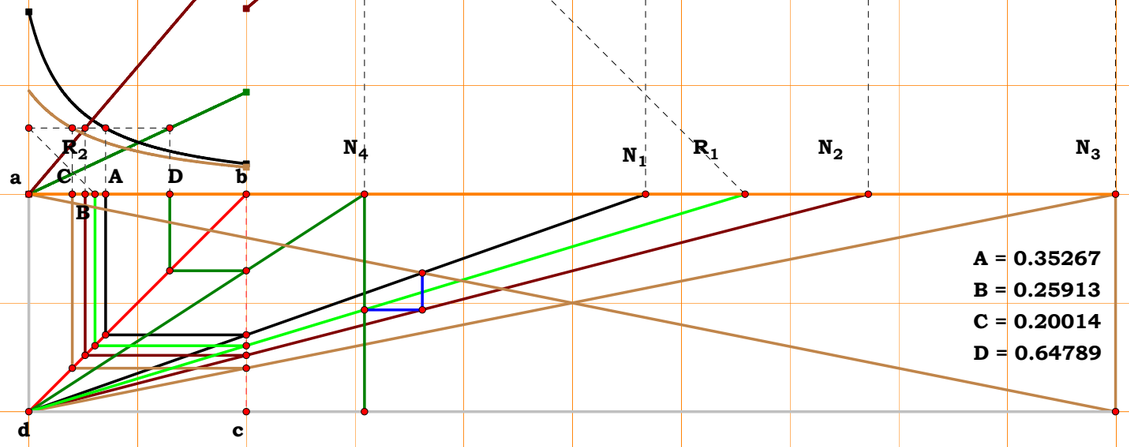
$R_1 - \frac{A+C}{B \cdot D} = 0.00000$

$\frac{A+C}{B \cdot D} - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 0.00000$

$R_2 = 0.14799$

$\frac{B \cdot D}{A+C} = 0.14799$

$R_2 - \frac{B \cdot D}{A+C} = 0.00000$



A = 0.35267
B = 0.25913
C = 0.20014
D = 0.64789

ab = 1.00000

$N_1 = 2.83549$

$N_2 = 3.85913$

$N_3 = 4.99651$

$N_4 = 1.54348$

$R_1 = 3.29282$

$$\frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 3.29282$$

$$\frac{A+C}{B \cdot D} = 3.29282$$

$$R_1 - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 0.00000$$

$$R_1 - \frac{A+C}{B \cdot D} = 0.00000$$

$$\frac{A+C}{B \cdot D} - \frac{N_2 \cdot N_4 \cdot (N_1 + N_3)}{N_1 \cdot N_3} = 0.00000$$

$R_2 = 0.30369$

$$\frac{B \cdot D}{A+C} = 0.30369$$

$$R_2 - \frac{B \cdot D}{A+C} = 0.00000$$

1CST5R7

Given.

Unit. $ab := 1$ $N_1 := 1.60255$

$N_2 := 3.76536$ $N_3 := 3.19958$

$N_4 := 4.43923$ $N_5 := 2.59577$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

$D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$

Descriptions.

$aj := \frac{N_1 \cdot N_3}{N_1 + N_3}$ $jk := \frac{aj}{N_3}$ $ae := N_2 \cdot (1 - jk)$

$cd := \frac{ae}{N_4}$ $bd := N_5 \cdot (1 - cd)$ $R_1 := \frac{bd}{cd}$

$R_1 = 1.997355$ $R_2 := \frac{1}{R_1}$

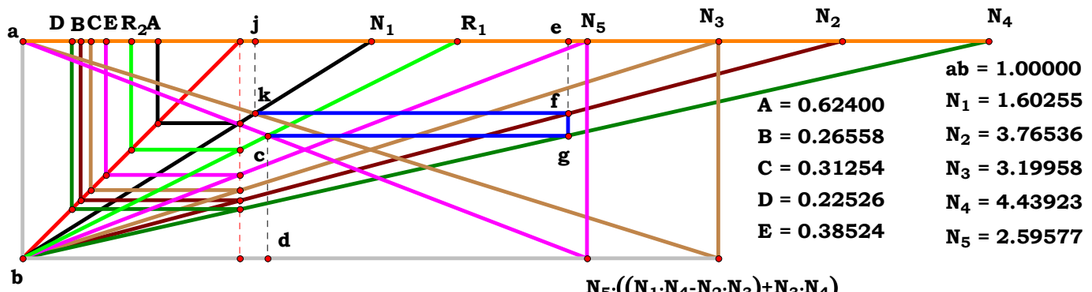
Definitions.

$$R_1 - \frac{N_5 \cdot \left(N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4\right)}{N_2 \cdot N_3} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$

$R_1 - \frac{(A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot E} = 0$ $R_2 - \frac{A \cdot D \cdot E}{(A \cdot B - A \cdot D + B \cdot C)} = 0$



ab = 1.00000
A = 0.62400
B = 0.26558
C = 0.31254
D = 0.22526
E = 0.38524
N1 = 1.60255
N2 = 3.76536
N3 = 3.19958
N4 = 4.43923
N5 = 2.59577

$R_1 - \frac{N_5 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3} = 0.00000$

$R_1 - \frac{(A \cdot B - A \cdot D) + B \cdot C}{A \cdot D \cdot E} = 0.00000$

$\frac{(A \cdot B - A \cdot D) + B \cdot C}{A \cdot D \cdot E} - \frac{N_5 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3} = 0.00000$

$R_1 = 1.99735$

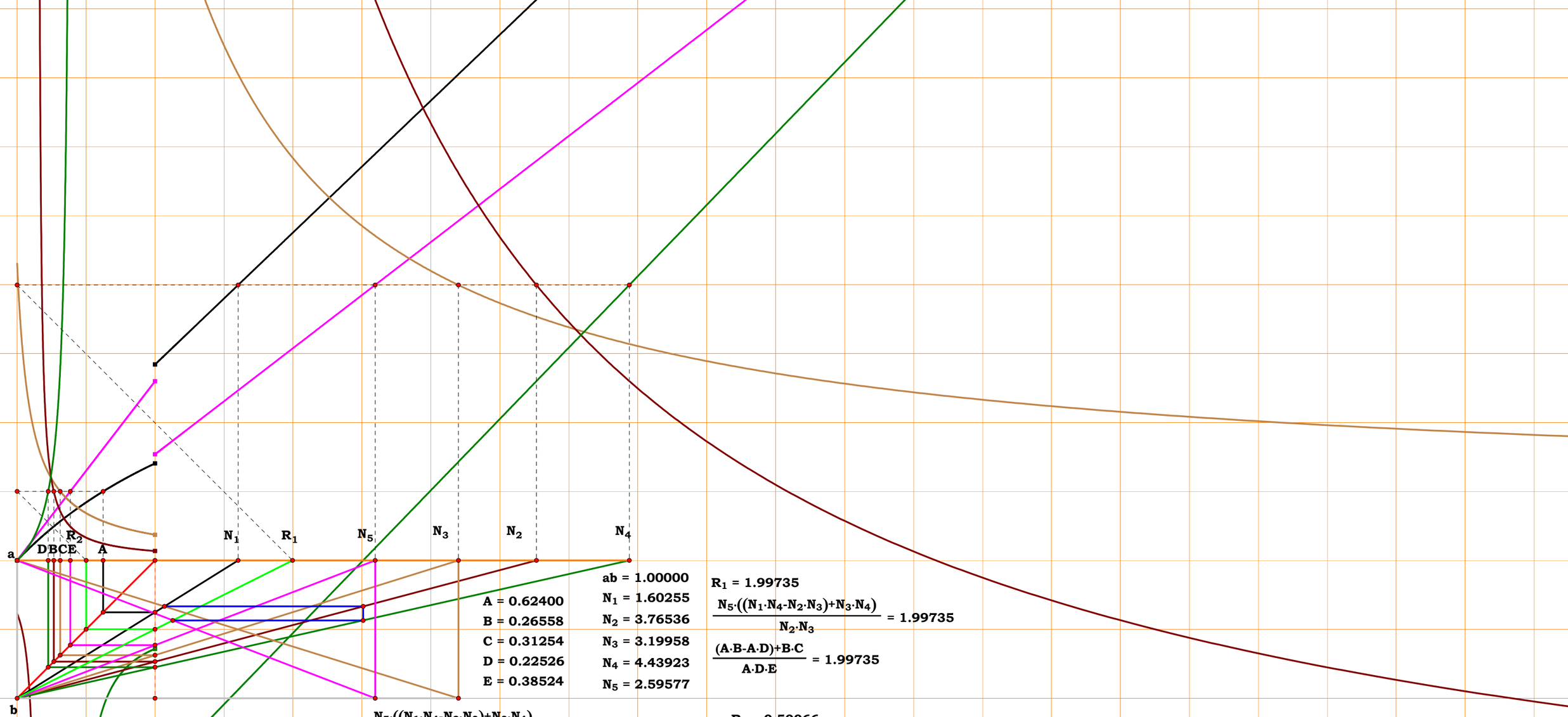
$\frac{N_5 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3} = 1.99735$

$\frac{(A \cdot B - A \cdot D) + B \cdot C}{A \cdot D \cdot E} = 1.99735$

$R_2 = 0.50066$

$\frac{A \cdot D \cdot E}{(A \cdot B - A \cdot D) + B \cdot C} = 0.50066$

$R_2 - \frac{A \cdot D \cdot E}{(A \cdot B - A \cdot D) + B \cdot C} = 0.00000$



ab = 1.00000
A = 0.62400
B = 0.26558
C = 0.31254
D = 0.22526
E = 0.38524
N1 = 1.60255
N2 = 3.76536
N3 = 3.19958
N4 = 4.43923
N5 = 2.59577

$R_1 = 1.99735$

$\frac{N_5\cdot((N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4)}{N_2\cdot N_3} = 1.99735$

$\frac{(A\cdot B-A\cdot D)+B\cdot C}{A\cdot D\cdot E} = 1.99735$

$R_1-\frac{N_5\cdot((N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4)}{N_2\cdot N_3} = 0.00000$

$R_1-\frac{(A\cdot B-A\cdot D)+B\cdot C}{A\cdot D\cdot E} = 0.00000$

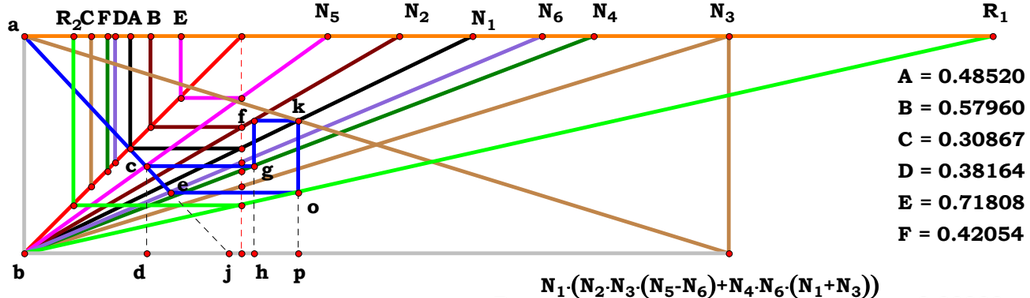
$\frac{(A\cdot B-A\cdot D)+B\cdot C}{A\cdot D\cdot E}-\frac{N_5\cdot((N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4)}{N_2\cdot N_3} = 0.00000$

$R_2 = 0.50066$

$\frac{A\cdot D\cdot E}{(A\cdot B-A\cdot D)+B\cdot C} = 0.50066$

$R_2-\frac{A\cdot D\cdot E}{(A\cdot B-A\cdot D)+B\cdot C} = 0.00000$

1CST5R8



A = 0.48520
B = 0.57960
C = 0.30867
D = 0.38164
E = 0.71808
F = 0.42054

ab = 1.00000
N_1 = 2.06102
N_2 = 1.72533
N_3 = 3.23973
N_4 = 2.62030
N_5 = 1.39260
N_6 = 2.37787

$R_1 = 4.45349$

$$\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 4.45349$$

$$\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))} = 4.45349$$

$$R_1-\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 0.00000$$

$$R_1-\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))} = 0.00000$$

$$\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))}-\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 0.00000$$

$R_2 = 0.22454$

$$\frac{(A\cdot D\cdot F\cdot(A+C))}{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)} = 0.22454$$

$$R_2-\frac{(A\cdot D\cdot F\cdot(A+C))}{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)} = 0.00000$$

Given.

Unit. $ab := 1$ $N_1 := 2.06102$

$N_2 := 1.72533$ $N_3 := 3.23973$

$N_4 := 2.62030$ $N_5 := 1.39260$

$N_6 := 2.37787$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5} \quad F := \frac{1}{N_6}$$

Descriptions.

$$bp := \frac{N_1\cdot N_3}{N_1+N_3} \quad kp := \frac{bp}{N_1} \quad bh := N_2\cdot kp$$

$$gh := \frac{bh}{N_4} \quad bd := N_5\cdot gh \quad bj := \frac{bd}{1-gh}$$

$$OP := \frac{bj}{bj+N_6} \quad R_1 := \frac{bp}{OP} \quad R_2 := \frac{1}{R_1}$$

$R_1 = 4.453478$

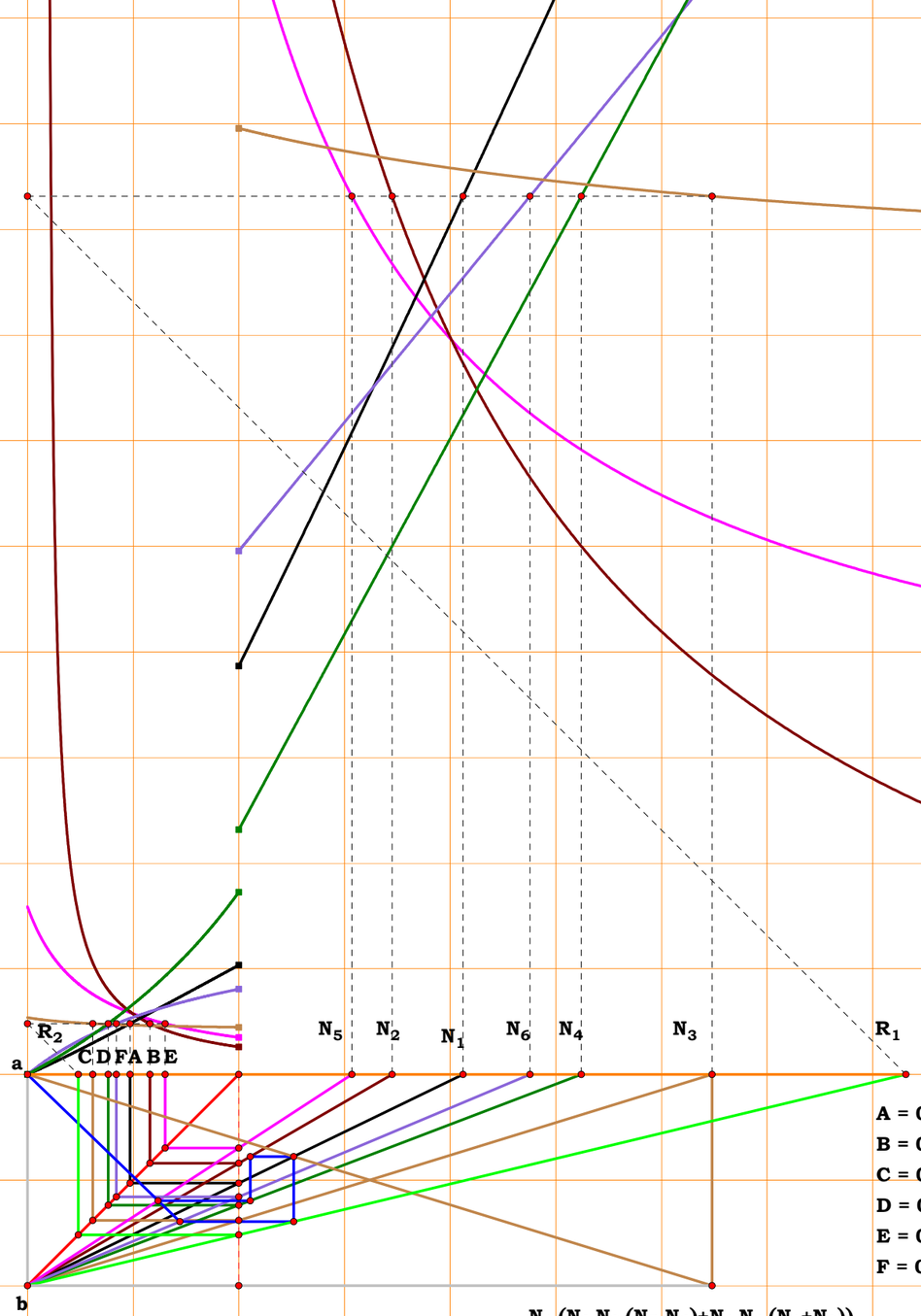
Definitions.

$$R_1-\frac{N_1\cdot\left[N_2\cdot N_3\cdot\left(N_5-N_6\right)+N_4\cdot N_6\cdot\left(N_1+N_3\right)\right]}{N_2\cdot N_5\cdot\left(N_1+N_3\right)} = 0$$

$$N_1-\frac{1}{A} = 0 \quad N_2-\frac{1}{B} = 0 \quad N_3-\frac{1}{C} = 0$$

$$N_4-\frac{1}{D} = 0 \quad N_5-\frac{1}{E} = 0 \quad N_6-\frac{1}{F} = 0$$

$$R_1-\frac{[A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F]}{A\cdot D\cdot F\cdot(A+C)} = 0 \quad R_2-\frac{A\cdot D\cdot F\cdot(A+C)}{[A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F]} = 0$$



$ab = 1.00000$

$N_1 = 2.06102$

$N_2 = 1.72533$

$N_3 = 3.23973$

$N_4 = 2.62030$

$N_5 = 1.53535$

$N_6 = 2.37787$

$A = 0.48520$

$B = 0.57960$

$C = 0.30867$

$D = 0.38164$

$E = 0.65132$

$F = 0.42054$

$R_1 = 4.15653$

$$\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 4.15653$$

$$\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))} = 4.15653$$

$$R_1-\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 0.00000$$

$$R_1-\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))} = 0.00000$$

$$\frac{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)}{(A\cdot D\cdot F\cdot(A+C))}-\frac{N_1\cdot(N_2\cdot N_3\cdot(N_5-N_6)+N_4\cdot N_6\cdot(N_1+N_3))}{N_2\cdot N_5\cdot(N_1+N_3)} = 0.00000$$

$R_2 = 0.24059$

$$\frac{(A\cdot D\cdot F\cdot(A+C))}{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)} = 0.24059$$

$$R_2-\frac{(A\cdot D\cdot F\cdot(A+C))}{(A\cdot E\cdot(B-D)+B\cdot C\cdot E+A\cdot D\cdot F)} = 0.00000$$

1CST5R9

Given.

Unit. $ab := 1$ $N_1 := 2.31237$

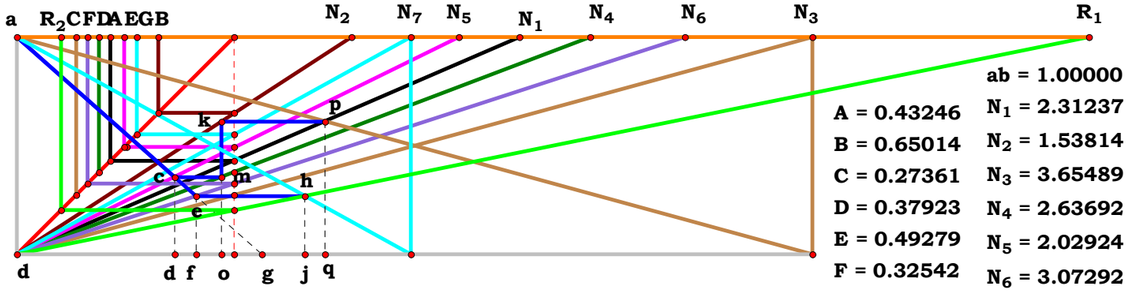
$N_2 := 1.53814$ $N_3 := 3.65489$

$N_4 := 2.63692$ $N_5 := 2.02924$

$N_6 := 3.07292$ $N_7 := 1.81040$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$

$E := \frac{1}{N_5}$ $F := \frac{1}{N_6}$ $G := \frac{1}{N_7}$



$A = 0.43246$ $B = 0.65014$ $C = 0.27361$ $D = 0.37923$ $E = 0.49279$ $F = 0.32542$ $G = 0.55236$

$ab = 1.00000$ $N_1 = 2.31237$ $N_2 = 1.53814$ $N_3 = 3.65489$ $N_4 = 2.63692$ $N_5 = 2.02924$ $N_6 = 3.07292$ $N_7 = 1.81040$

$R_1 = 4.93195$

$\frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 4.93195$

$\frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} = 4.93195$

$R_1 - \frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0.00000$

$R_1 - \frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} = 0.00000$

$\frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} - \frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0.00000$

$R_2 = 0.20276$

$\frac{(A \cdot D \cdot F \cdot G)}{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))} = 0.20276$

$R_2 - \frac{(A \cdot D \cdot F \cdot G)}{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))} = 0.00000$

Descriptions.

$bq := \frac{N_1 \cdot N_3}{N_1 + N_3}$ $ko := \frac{bq}{N_1}$ $bo := N_2 \cdot ko$ $mo := \frac{bo}{N_4}$

$bd := N_5 \cdot mo$ $bg := \frac{bd}{1 - mo}$ $bf := \frac{bg \cdot N_6}{bg + N_6}$ $ef := \frac{bf}{N_6}$

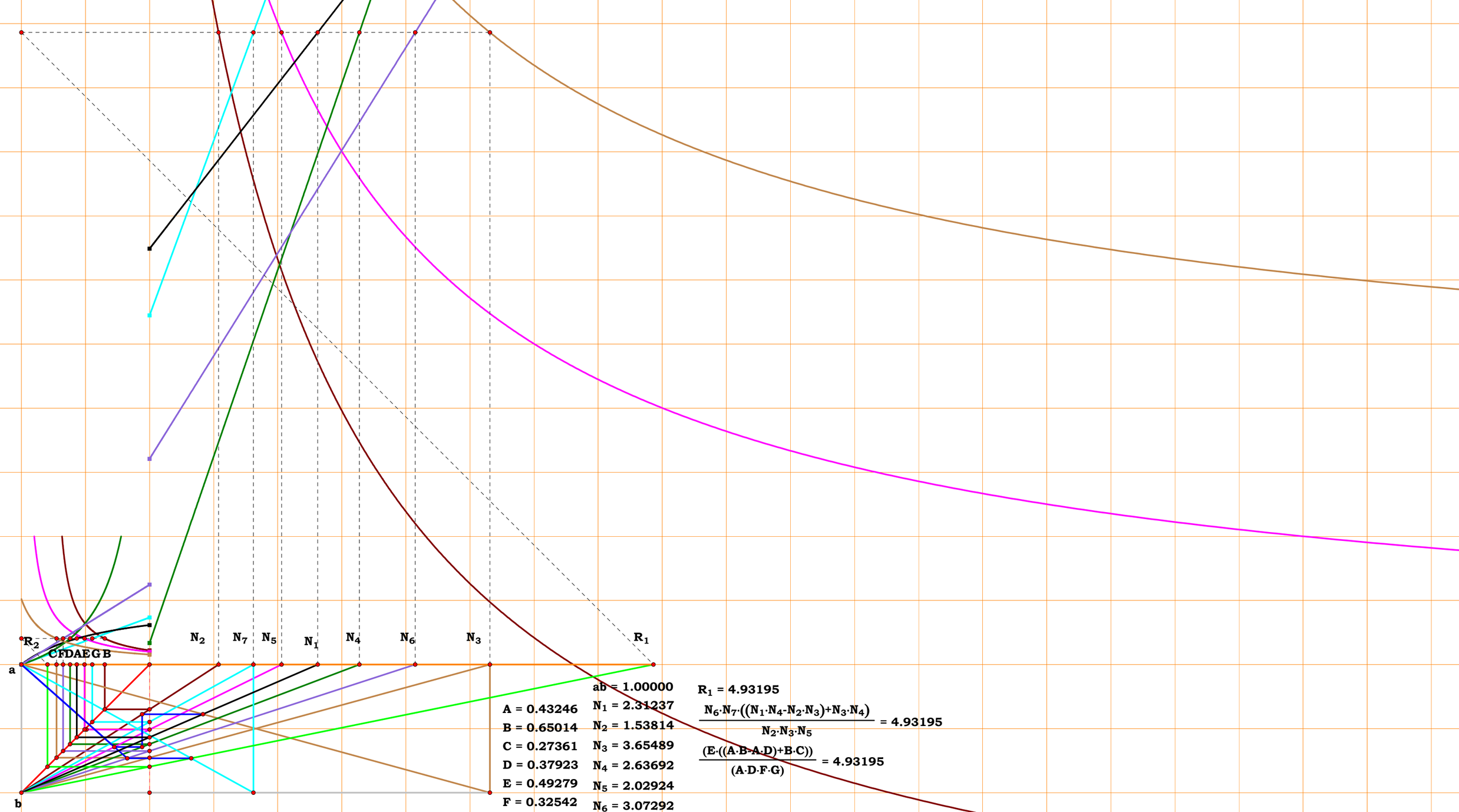
$bj := N_7 \cdot (1 - ef)$ $R_1 := \frac{bj}{ef}$ $R_1 = 4.931985$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_6 \cdot N_7 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$ $N_6 - \frac{1}{F} = 0$ $N_7 - \frac{1}{G} = 0$

$R_1 - \frac{E \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot F \cdot G} = 0$ $R_2 - \frac{A \cdot D \cdot F \cdot G}{E \cdot (A \cdot B - A \cdot D + B \cdot C)} = 0$



A = 0.43246
B = 0.65014
C = 0.27361
D = 0.37923
E = 0.49279
F = 0.32542
G = 0.55236

ab = 1.00000
N_1 = 2.31237
N_2 = 1.53814
N_3 = 3.65489
N_4 = 2.63692
N_5 = 2.02924
N_6 = 3.07292
N_7 = 1.81040

$R_1 = 4.93195$

$$\frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 4.93195$$

$$\frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} = 4.93195$$

$$R_1 - \frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0.00000$$

$$R_1 - \frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} = 0.00000$$

$$\frac{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))}{(A \cdot D \cdot F \cdot G)} - \frac{N_6 \cdot N_7 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_3 \cdot N_4)}{N_2 \cdot N_3 \cdot N_5} = 0.00000$$

$R_2 = 0.20276$

$$\frac{(A \cdot D \cdot F \cdot G)}{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))} = 0.20276$$

$$R_2 - \frac{(A \cdot D \cdot F \cdot G)}{(E \cdot ((A \cdot B - A \cdot D) + B \cdot C))} = 0.00000$$

1CST5R10

Given.

Unit. $ab := 1$ $N_1 := 3.04914$

$N_2 := 2.21884$ $N_3 := 1.60859$

$N_4 := 3.83666$ $N_5 := 2.49584$

$N_6 := 5.09601$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$

$D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$ $F := \frac{1}{N_6}$

Descriptions.

$ae := \frac{N_1 \cdot N_3}{N_1 + N_3}$ $ef := \frac{ae}{N_2}$ $ah := N_4 \cdot ef$

$hj := 1 - \frac{ah}{N_5}$ $ac := N_6 \cdot hj$ $R_1 := \frac{ac}{1 - hj}$

$R_1 = 1.889068$ $R_2 := \frac{1}{R_1}$

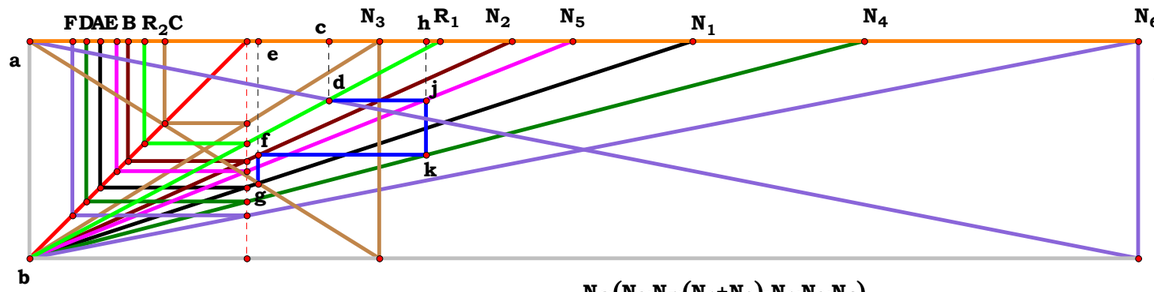
Definitions.

$$R_1 - \frac{N_6 \cdot \left[N_2 \cdot N_5 \cdot \left(N_1 + N_3\right) - N_1 \cdot N_3 \cdot N_4\right]}{N_1 \cdot N_3 \cdot N_4} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$ $N_6 - \frac{1}{F} = 0$

$R_1 - \frac{(A \cdot D - B \cdot E + C \cdot D)}{B \cdot E \cdot F} = 0$ $R_2 - \frac{B \cdot E \cdot F}{(A \cdot D - B \cdot E + C \cdot D)} = 0$



$A = 0.32796$
$B = 0.45069$
$C = 0.62166$
$D = 0.26064$
$E = 0.40067$
$F = 0.19623$

$ab = 1.00000$
$N_1 = 3.04914$
$N_2 = 2.21884$
$N_3 = 1.60859$
$N_4 = 3.83666$
$N_5 = 2.49584$
$N_6 = 5.09601$

$R_1 = 1.88906$

$$\frac{N_6 \cdot (N_2 \cdot N_5 \cdot (N_1 + N_3) - N_1 \cdot N_3 \cdot N_4)}{N_1 \cdot N_3 \cdot N_4} = 1.88906$$

$$\frac{((A \cdot D - B \cdot E) + C \cdot D)}{(B \cdot E \cdot F)} = 1.88906$$

$$R_1 - \frac{N_6 \cdot (N_2 \cdot N_5 \cdot (N_1 + N_3) - N_1 \cdot N_3 \cdot N_4)}{N_1 \cdot N_3 \cdot N_4} = 0.00000$$

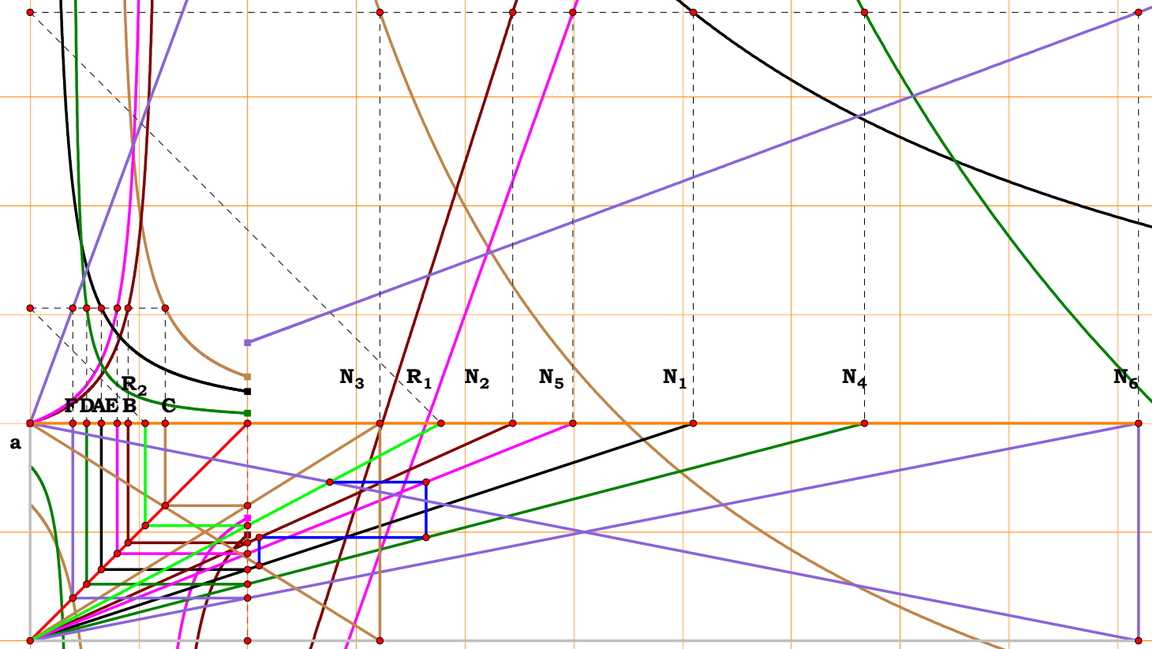
$$R_1 - \frac{((A \cdot D - B \cdot E) + C \cdot D)}{(B \cdot E \cdot F)} = 0.00000$$

$$\frac{((A \cdot D - B \cdot E) + C \cdot D)}{(B \cdot E \cdot F)} - \frac{N_6 \cdot (N_2 \cdot N_5 \cdot (N_1 + N_3) - N_1 \cdot N_3 \cdot N_4)}{N_1 \cdot N_3 \cdot N_4} = 0.00000$$

$R_2 = 0.52936$

$$\frac{(B \cdot E \cdot F)}{((A \cdot D - B \cdot E) + C \cdot D)} = 0.52936$$

$$R_2 - \frac{(B \cdot E \cdot F)}{((A \cdot D - B \cdot E) + C \cdot D)} = 0.00000$$



ab = 1.00000

N_1 = 3.04914

N_2 = 2.21884

N_3 = 1.60859

N_4 = 3.83666

N_5 = 2.49584

N_6 = 5.09601

A = 0.32796

B = 0.45069

C = 0.62166

D = 0.26064

E = 0.40067

F = 0.19623

R_1 = 1.88906

$$\frac{N_6\cdot(N_2\cdot N_5\cdot(N_1+N_3)-N_1\cdot N_3\cdot N_4)}{N_1\cdot N_3\cdot N_4} = 1.88906$$

$$\frac{((A\cdot D-B\cdot E)+C\cdot D)}{(B\cdot E\cdot F)} = 1.88906$$

$$R_1-\frac{N_6\cdot(N_2\cdot N_5\cdot(N_1+N_3)-N_1\cdot N_3\cdot N_4)}{N_1\cdot N_3\cdot N_4} = 0.00000$$

$$R_1-\frac{((A\cdot D-B\cdot E)+C\cdot D)}{(B\cdot E\cdot F)} = 0.00000$$

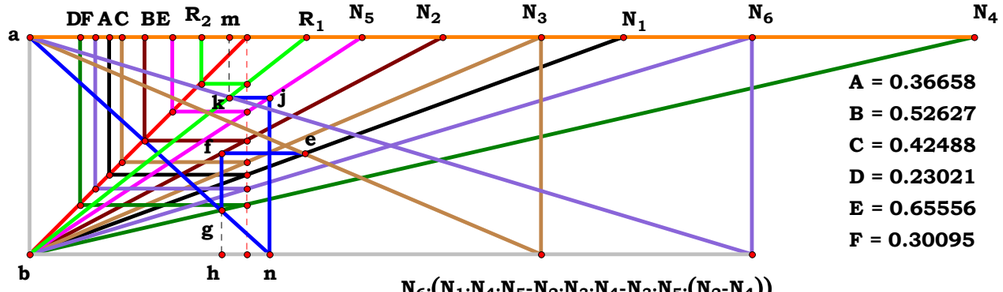
$$\frac{((A\cdot D-B\cdot E)+C\cdot D)}{(B\cdot E\cdot F)}-\frac{N_6\cdot(N_2\cdot N_5\cdot(N_1+N_3)-N_1\cdot N_3\cdot N_4)}{N_1\cdot N_3\cdot N_4} = 0.00000$$

R_2 = 0.52936

$$\frac{(B\cdot E\cdot F)}{((A\cdot D-B\cdot E)+C\cdot D)} = 0.52936$$

$$R_2-\frac{(B\cdot E\cdot F)}{((A\cdot D-B\cdot E)+C\cdot D)} = 0.00000$$

1CST5R11



A = 0.36658
B = 0.52627
C = 0.42488
D = 0.23021
E = 0.65556
F = 0.30095

ab = 1.00000
N_1 = 2.72791
N_2 = 1.90017
N_3 = 2.35362
N_4 = 4.34382
N_5 = 1.52542
N_6 = 3.32276

R_1 = 1.26948

$$\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4} = 1.26948$$

$$\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)} = 1.26948$$

$$R_1-\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4} = 0.00000$$

$$R_1-\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)} = 0.00000$$

$$\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)}-\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4} = 0.00000$$

R_2 = 0.78772

$$\frac{(A\cdot E\cdot F)}{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)} = 0.78772$$

$$R_2-\frac{(A\cdot E\cdot F)}{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)} = 0.00000$$

Given.

Unit. $ab := 1$ $N_1 := 2.72791$

$N_2 := 1.90017$ $N_3 := 2.35362$

$N_4 := 4.34382$ $N_5 := 1.52542$

$N_6 := 3.32276$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3}$$

$$D := \frac{1}{N_4} \quad E := \frac{1}{N_5} \quad F := \frac{1}{N_6}$$

Descriptions.

$$fh := \frac{N_3}{N_1+N_3} \quad bh := N_2\cdot fh \quad gh := \frac{bh}{N_4}$$

$$bn := \frac{bh}{1-gh} \quad jn := \frac{bn}{N_5} \quad am := N_6\cdot(1-jn)$$

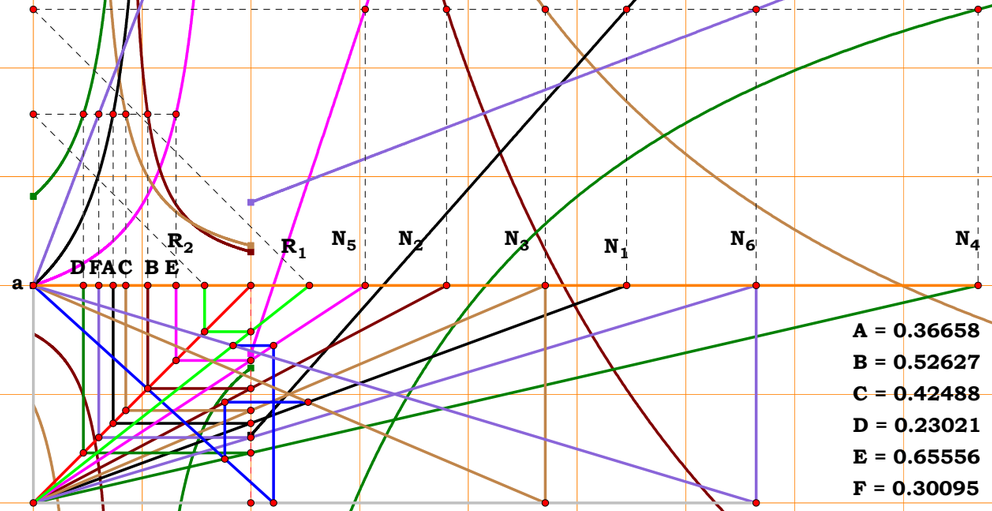
$$R_1 := \frac{am}{jn} \quad R_1 = 1.269479 \quad R_2 := \frac{1}{R_1}$$

Definitions.

$$R_1-\frac{N_6\cdot\left[N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot\left(N_2-N_4\right)\right]}{N_2\cdot N_3\cdot N_4} = 0$$

$$N_1-\frac{1}{A}=0 \quad N_2-\frac{1}{B}=0 \quad N_3-\frac{1}{C}=0 \quad N_4-\frac{1}{D}=0 \quad N_5-\frac{1}{E}=0 \quad N_6-\frac{1}{F}=0$$

$$R_1-\frac{(A\cdot B-A\cdot D+B\cdot C-A\cdot E)}{A\cdot E\cdot F}=0 \quad R_2-\frac{A\cdot E\cdot F}{(A\cdot B-A\cdot D+B\cdot C-A\cdot E)}=0$$



ab = 1.00000

N_1 = 2.72791

N_2 = 1.90017

N_3 = 2.35362

N_4 = 4.34382

N_5 = 1.52542

N_6 = 3.32276

A = 0.36658

B = 0.52627

C = 0.42488

D = 0.23021

E = 0.65556

F = 0.30095

R_1 = 1.26948

$\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4}$ = 1.26948

$\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)}$ = 1.26948

$R_1-\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4}$ = 0.00000

$R_1-\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)}$ = 0.00000

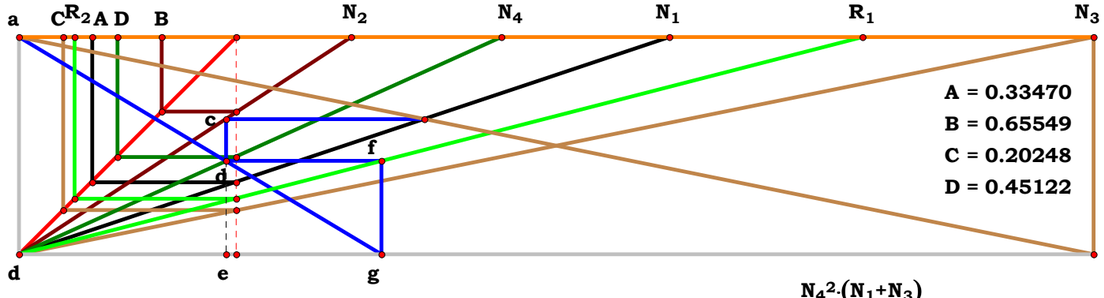
$\frac{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}{(A\cdot E\cdot F)}-\frac{N_6\cdot(N_1\cdot N_4\cdot N_5-N_2\cdot N_3\cdot N_4-N_3\cdot N_5\cdot(N_2-N_4))}{N_2\cdot N_3\cdot N_4}$ = 0.00000

R_2 = 0.78772

$\frac{(A\cdot E\cdot F)}{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}$ = 0.78772

$R_2-\frac{(A\cdot E\cdot F)}{(((A\cdot B-A\cdot D)+B\cdot C)-A\cdot E)}$ = 0.00000

1CST5R12



ab = 1.00000
A = 0.33470
B = 0.65549
C = 0.20248
D = 0.45122
N1 = 2.98779
N2 = 1.52557
N3 = 4.93875
N4 = 2.21620

$R_1 = 3.88058$

$\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 3.88058$

$\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)} = 3.88058$

$R_1-\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 0.00000$

$R_1-\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)} = 0.00000$

$\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}-\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 0.00000$

$R_2 = 0.25769$

$\frac{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}{B\cdot(A+C)} = 0.25769$

$R_2-\frac{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}{B\cdot(A+C)} = 0.00000$

Given.

Unit. $ab := 1$ $N_1 := 2.98779$

$N_2 := 1.52557$ $N_3 := 4.93875$

$N_4 := 2.21620$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$

Descriptions.

$ce := \frac{N_3}{N_1+N_3}$ $be := N_2\cdot ce$

$de := \frac{be}{N_4}$ $bg := \frac{be}{1-de}$

$R_1 := \frac{bg}{de}$ $R_1 = 3.880585$ $R_2 := \frac{1}{R_1}$

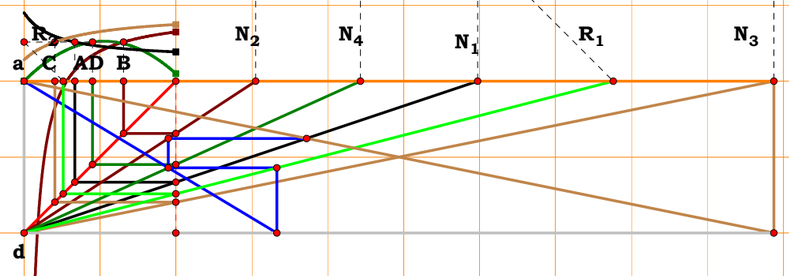
Definitions.

$$R_1 - \frac{N_4^{\,2}\cdot(N_1+N_3)}{N_1\cdot N_4 - N_2\cdot N_3 + N_3\cdot N_4} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$

$R_1 - \frac{B\cdot(A+C)}{D\cdot(A\cdot B - A\cdot D + B\cdot C)} = 0$ $R_2 - \frac{D\cdot(A\cdot B - A\cdot D + B\cdot C)}{B\cdot(A+C)} = 0$



A = 0.33470
B = 0.65549
C = 0.20248
D = 0.45122

ab = 1.00000
N_1 = 2.98779
N_2 = 1.52557
N_3 = 4.93875
N_4 = 2.21620

$R_1 = 3.88058$

$$\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 3.88058$$

$$\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)} = 3.88058$$

$$R_1-\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 0.00000$$

$$R_1-\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)} = 0.00000$$

$$\frac{B\cdot(A+C)}{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}-\frac{N_4^2\cdot(N_1+N_3)}{(N_1\cdot N_4-N_2\cdot N_3)+N_3\cdot N_4} = 0.00000$$

$R_2 = 0.25769$

$$\frac{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}{B\cdot(A+C)} = 0.25769$$

$$R_2-\frac{D\cdot((A\cdot B-A\cdot D)+B\cdot C)}{B\cdot(A+C)} = 0.00000$$

1CST5R13

Given.

Unit. $ab := 1 \quad N_1 := 2.82636$

$N_2 := 1.48736 \quad N_3 := 3.33108$

$N_4 := 1.98549$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$ce := \frac{N_3}{N_1 + N_3} \quad be := N_2 \cdot ce \quad bh := \frac{be}{1 - ce}$

$df := \frac{bh}{bh + N_4} \quad R_1 := \frac{bh}{df}$

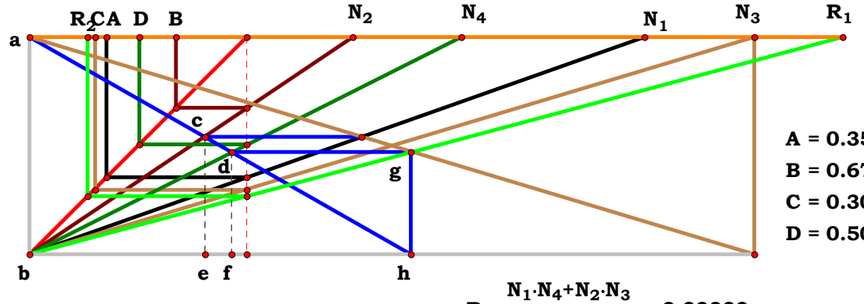
$R_1 = 3.738457 \quad R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{(A \cdot D + B \cdot C)}{B \cdot C \cdot D} = 0 \quad R_2 - \frac{B \cdot C \cdot D}{(A \cdot D + B \cdot C)} = 0$



$A = 0.35381$
$B = 0.67233$
$C = 0.30020$
$D = 0.50365$

$ab = 1.00000$
$N_1 = 2.82636$
$N_2 = 1.48736$
$N_3 = 3.33108$
$N_4 = 1.98549$

$R_1 = 3.73846$

$\frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 3.73846$

$\frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} = 3.73846$

$R_1 - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0.00000$

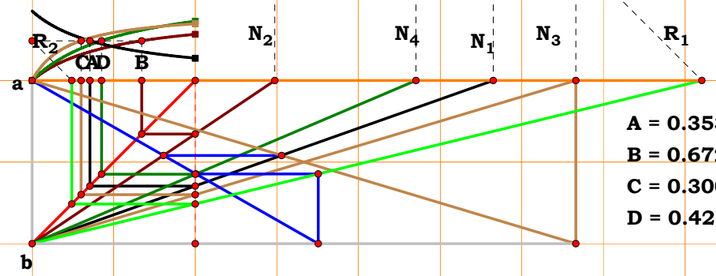
$R_1 - \frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} = 0.00000$

$\frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0.00000$

$R_2 = 0.26749$

$\frac{B \cdot C \cdot D}{A \cdot D + B \cdot C} = 0.26749$

$R_2 - \frac{B \cdot C \cdot D}{A \cdot D + B \cdot C} = 0.00000$



A = 0.35381
B = 0.67233
C = 0.30020
D = 0.42528

ab = 1.00000
N_1 = 2.82636
N_2 = 1.48736
N_3 = 3.33108
N_4 = 2.35141

$R_1 = 4.10437$

$$\frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 4.10437$$

$$\frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} = 4.10437$$

$$R_1 - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0.00000$$

$$R_1 - \frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} = 0.00000$$

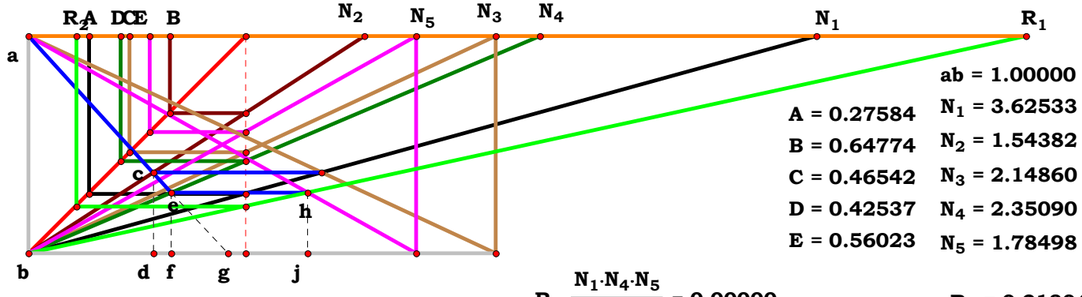
$$\frac{A \cdot D + B \cdot C}{B \cdot C \cdot D} - \frac{N_1 \cdot N_4 + N_2 \cdot N_3}{N_1} = 0.00000$$

$R_2 = 0.24364$

$$\frac{B \cdot C \cdot D}{A \cdot D + B \cdot C} = 0.24364$$

$$R_2 - \frac{B \cdot C \cdot D}{A \cdot D + B \cdot C} = 0.00000$$

1CST5R14



ab = 1.00000
N_1 = 3.62533
N_2 = 1.54382
N_3 = 2.14860
N_4 = 2.35090
N_5 = 1.78498

A = 0.27584
B = 0.64774
C = 0.46542
D = 0.42537
E = 0.56023

R_1 = 4.58628

$\frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3}$ = 4.58628

$\frac{B \cdot C}{A \cdot D \cdot E}$ = 4.58628

Given.

Unit. $ab := 1$ $N_1 := 3.62533$

$N_2 := 1.54382$ $N_3 := 2.14860$

$N_4 := 2.35090$ $N_5 := 1.78498$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$cd := \frac{N_3}{N_1 + N_3} \qquad bd := N_2 \cdot cd$$

$$bg := \frac{bd}{1 - cd} \qquad ef := \frac{bg}{bg + N_4}$$

$$bj := N_5 \cdot (1 - ef) \qquad R_1 := \frac{bj}{ef}$$

$R_1 = 4.586304$ $R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{B \cdot C}{A \cdot D \cdot E} = 0 \qquad R_2 - \frac{A \cdot D \cdot E}{B \cdot C} = 0$$

$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3}$ = 0.00000

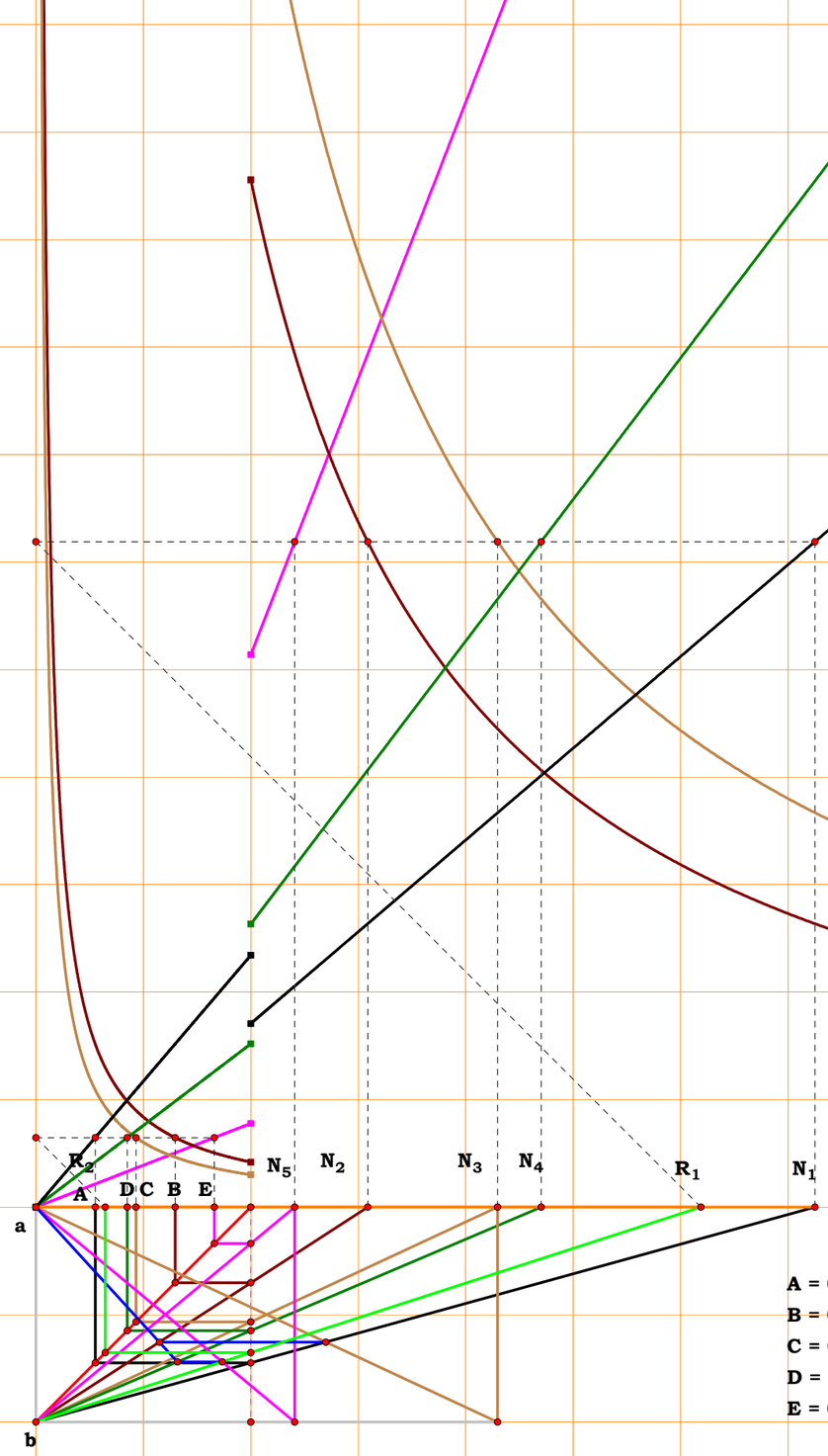
$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3}$ = 0.00000

$\frac{B \cdot C}{A \cdot D \cdot E} - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3}$ = 0.00000

R_2 = 0.21804

$\frac{A \cdot D \cdot E}{B \cdot C}$ = 0.21804

$R_2 - \frac{A \cdot D \cdot E}{B \cdot C}$ = 0.00000



$ab = 1.00000$

$A = 0.27584$ $N_1 = 3.62533$

$B = 0.64774$ $N_2 = 1.54382$

$C = 0.46542$ $N_3 = 2.14860$

$D = 0.42537$ $N_4 = 2.35090$

$E = 0.83020$ $N_5 = 1.20453$

$R_1 = 3.09490$

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 3.09490$$

$$\frac{B \cdot C}{A \cdot D \cdot E} = 3.09490$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 0.00000$$

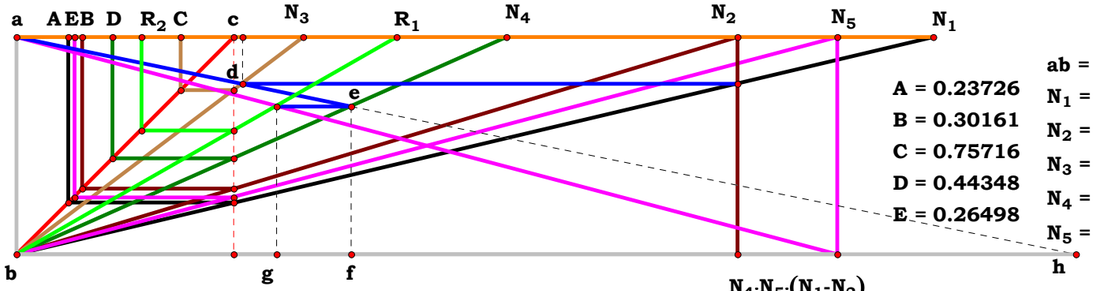
$$\frac{B \cdot C}{A \cdot D \cdot E} - \frac{N_1 \cdot N_4 \cdot N_5}{N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.32311$

$$\frac{A \cdot D \cdot E}{B \cdot C} = 0.32311$$

$$R_2 - \frac{A \cdot D \cdot E}{B \cdot C} = 0.00000$$

1CST6R0



ab = 1.00000

A = 0.23726
B = 0.30161
C = 0.75716
D = 0.44348
E = 0.26498

N_1 = 4.21484
N_2 = 3.31553
N_3 = 1.32073
N_4 = 2.25490
N_5 = 3.77387

R_1 = 1.74766

$\frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3}$ = 1.74766

$\frac{(C \cdot (B-A))}{(A \cdot D \cdot E)}$ = 1.74766

Given.

Unit. $AB := 1$ $N_1 := 4.21484$

$N_2 := 3.31553$ $N_3 := 1.32073$

$N_4 := 2.25490$ $N_5 := 3.77387$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$

Descriptions.

$CD := 1 - \frac{N_2}{N_1}$ $AC := N_3 \cdot (1 - CD)$

$BH := \frac{AC}{CD}$ $EF := \frac{BH}{BH + N_4}$

$BG := N_5 \cdot (1 - EF)$ $R_1 := \frac{BG}{EF}$

$R_1 = 1.747659$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$

$R_1 - \frac{C \cdot (B - A)}{A \cdot D \cdot E} = 0$ $R_2 - \frac{A \cdot D \cdot E}{C \cdot (B - A)} = 0$

$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3}$ = 0.00000

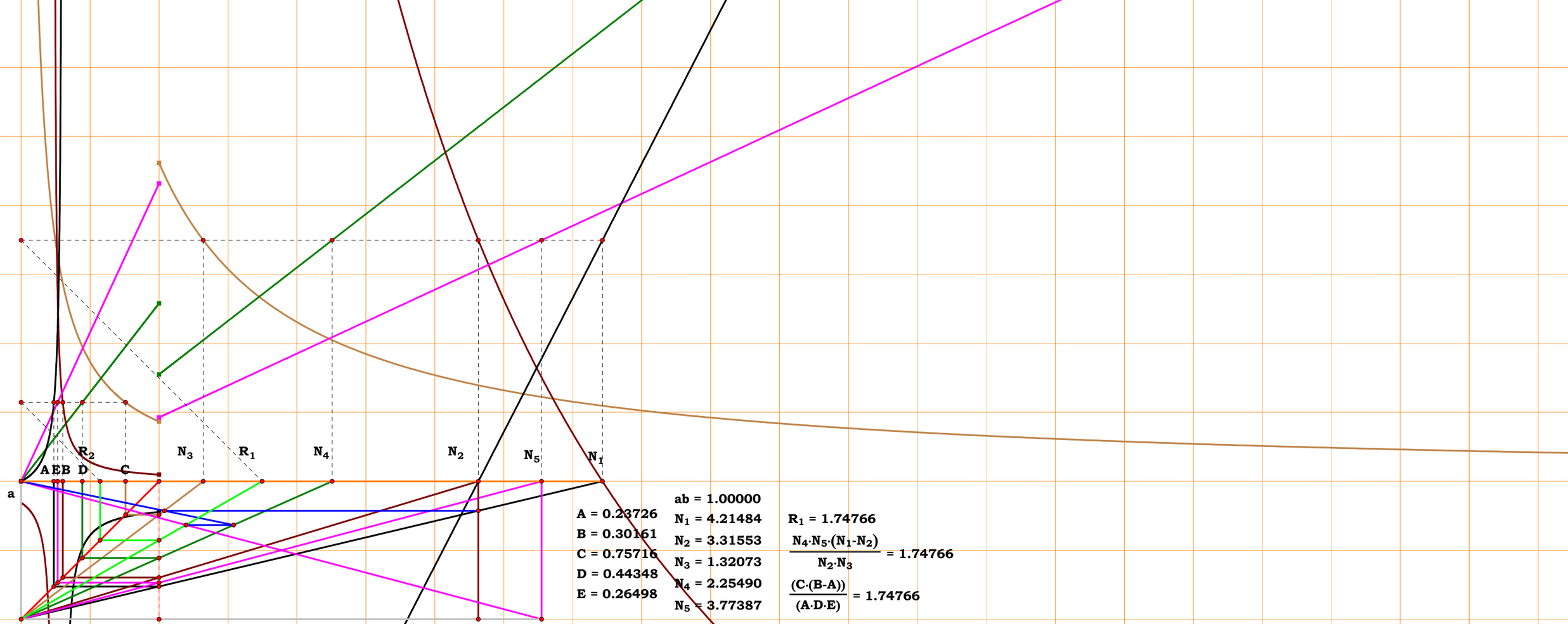
$R_1 - \frac{(C \cdot (B-A))}{(A \cdot D \cdot E)}$ = 0.00000

$\frac{(C \cdot (B-A))}{(A \cdot D \cdot E)} - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3}$ = 0.00000

R_2 = 0.57219

$\frac{(A \cdot D \cdot E)}{(C \cdot (B-A))}$ = 0.57219

$R_2 - \frac{(A \cdot D \cdot E)}{(C \cdot (B-A))}$ = 0.00000



ab = 1.00000
A = 0.23726
B = 0.30161
C = 0.75716
D = 0.44348
E = 0.26498
N1 = 4.21484
N2 = 3.31553
N3 = 1.32073
N4 = 2.25490
N5 = 3.77387

R1 = 1.74766

$\frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3} = 1.74766$

$\frac{(C \cdot (B-A))}{(A \cdot D \cdot E)} = 1.74766$

$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3} = 0.00000$

$R_1 - \frac{(C \cdot (B-A))}{(A \cdot D \cdot E)} = 0.00000$

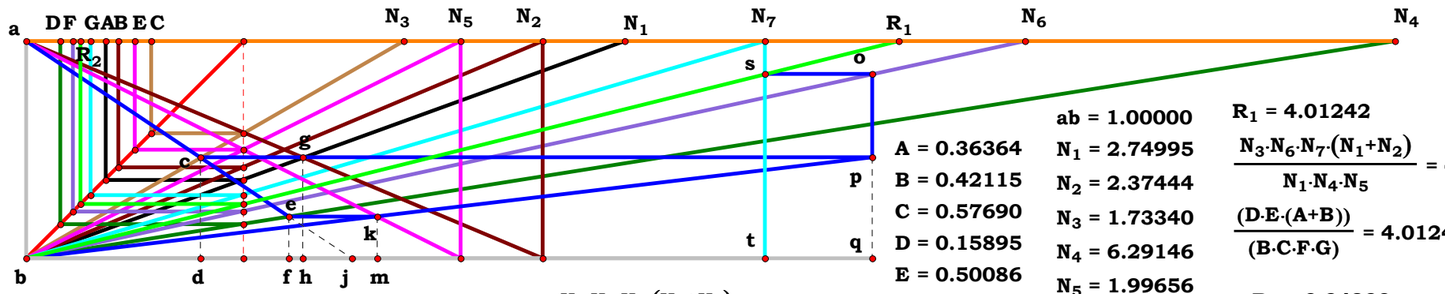
$\frac{(C \cdot (B-A))}{(A \cdot D \cdot E)} - \frac{N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_2 \cdot N_3} = 0.00000$

R2 = 0.57219

$\frac{(A \cdot D \cdot E)}{(C \cdot (B-A))} = 0.57219$

$R_2 - \frac{(A \cdot D \cdot E)}{(C \cdot (B-A))} = 0.00000$

1CST6R1



Given.

Unit. $AB := 1$ $N_1 := 2.74995$

$N_2 := 2.37444$ $N_3 := 1.73340$ $N_4 := 6.29146$

$N_5 := 1.99656$ $N_6 := 4.59329$ $N_7 := 3.39704$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$ $F := \frac{1}{N_6}$ $G := \frac{1}{N_7}$

$A = 0.36364$ $B = 0.42115$ $C = 0.57690$ $D = 0.15895$ $E = 0.50086$ $F = 0.21771$ $G = 0.29437$

$ab = 1.00000$ $N_1 = 2.74995$ $N_2 = 2.37444$ $N_3 = 1.73340$ $N_4 = 6.29146$ $N_5 = 1.99656$ $N_6 = 4.59329$ $N_7 = 3.39704$

$R_1 - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2)}{N_1 \cdot N_4 \cdot N_5} = 0.00000$

$R_1 - \frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} = 0.00000$

$\frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2)}{N_1 \cdot N_4 \cdot N_5} = 0.00000$

$R_1 = 4.01242$

$\frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2)}{N_1 \cdot N_4 \cdot N_5} = 4.01242$

$\frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} = 4.01242$

$R_2 = 0.24923$

$\frac{(B \cdot C \cdot F \cdot G)}{(D \cdot E \cdot (A+B))} = 0.24923$

$R_2 - \frac{(B \cdot C \cdot F \cdot G)}{(D \cdot E \cdot (A+B))} = 0.00000$

Descriptions.

$GH := \frac{N_2}{N_1 + N_2}$ $BD := N_3 \cdot GH$ $BJ := \frac{BD}{1 - GH}$

$EF := \frac{BJ}{BJ + N_4}$ $BM := N_5 \cdot (1 - EF)$ $BQ := \frac{BM \cdot GH}{EF}$

$OQ := \frac{BQ}{N_6}$ $R_1 := \frac{N_7}{OQ}$

$R_1 = 4.012425$ $R_2 := \frac{1}{R_1}$

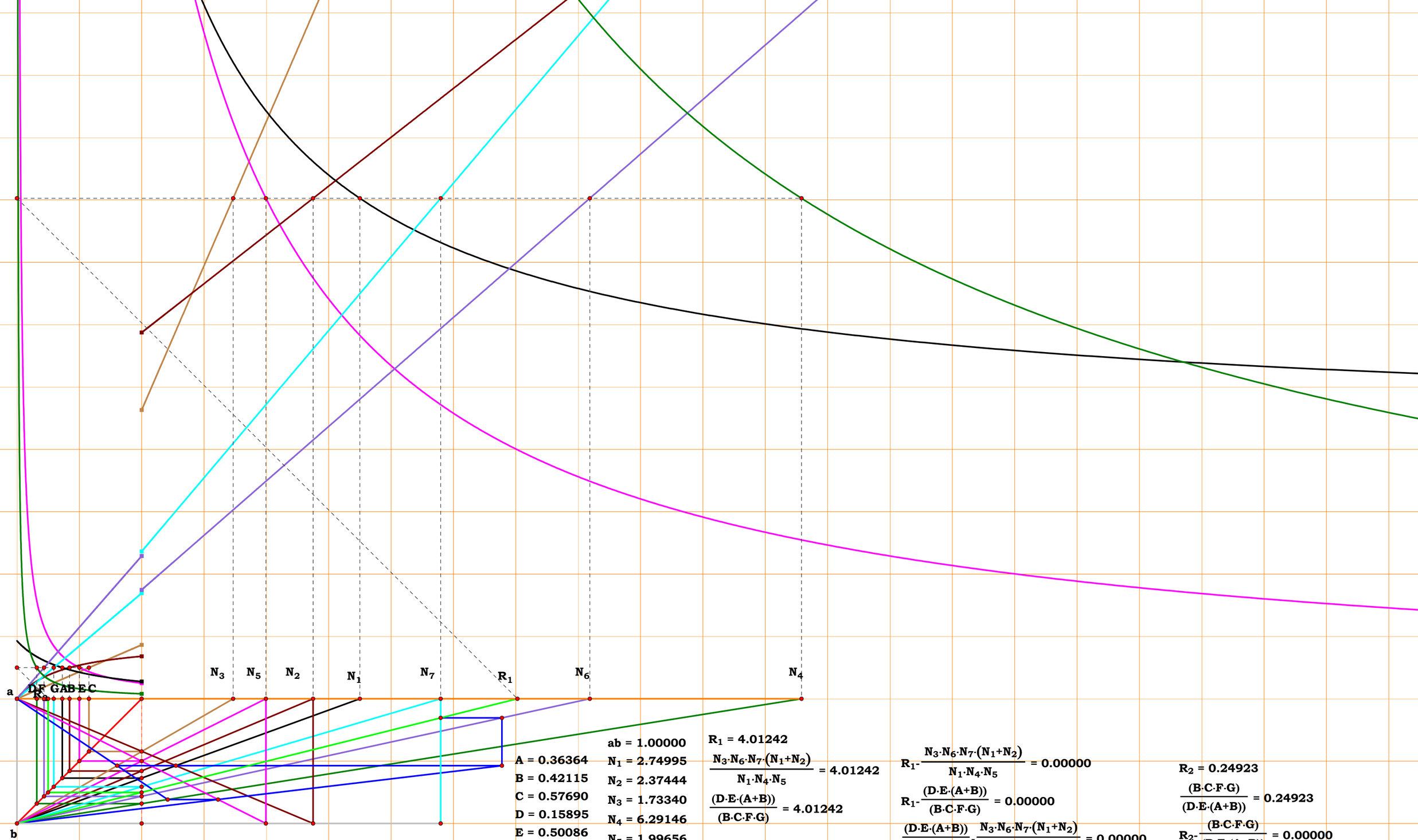
Definitions.

$R_1 - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1 + N_2)}{N_1 \cdot N_4 \cdot N_5} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$

$N_5 - \frac{1}{E} = 0$ $N_6 - \frac{1}{F} = 0$ $N_7 - \frac{1}{G} = 0$

$R_1 - \frac{D \cdot E \cdot (A + B)}{B \cdot C \cdot F \cdot G} = 0$ $R_2 - \frac{B \cdot C \cdot F \cdot G}{D \cdot E \cdot (A + B)} = 0$



ab = 1.00000
N_1 = 2.74995
N_2 = 2.37444
N_3 = 1.73340
N_4 = 6.29146
N_5 = 1.99656
N_6 = 4.59329
N_7 = 3.39704

A = 0.36364
B = 0.42115
C = 0.57690
D = 0.15895
E = 0.50086
F = 0.21771
G = 0.29437

R_1 = 4.01242

$$\frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1+N_2)}{N_1 \cdot N_4 \cdot N_5} = 4.01242$$

$$\frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} = 4.01242$$

$$R_1 - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1+N_2)}{N_1 \cdot N_4 \cdot N_5} = 0.00000$$

$$R_1 - \frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} = 0.00000$$

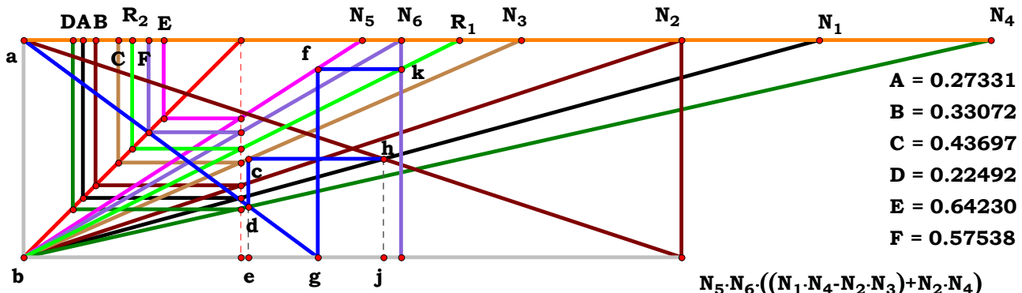
$$\frac{(D \cdot E \cdot (A+B))}{(B \cdot C \cdot F \cdot G)} - \frac{N_3 \cdot N_6 \cdot N_7 \cdot (N_1+N_2)}{N_1 \cdot N_4 \cdot N_5} = 0.00000$$

R_2 = 0.24923

$$\frac{(B \cdot C \cdot F \cdot G)}{(D \cdot E \cdot (A+B))} = 0.24923$$

$$R_2 - \frac{(B \cdot C \cdot F \cdot G)}{(D \cdot E \cdot (A+B))} = 0.00000$$

1CST6R2



ab = 1.00000
A = 0.27331
B = 0.33072
C = 0.43697
D = 0.22492
E = 0.64230
F = 0.57538
N1 = 3.65886
N2 = 3.02367
N3 = 2.28849
N4 = 4.44602
N5 = 1.55690
N6 = 1.73798

R1 = 2.00454

$\frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 2.00454$

$\frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} = 2.00454$

Given.

Unit. $AB := 1$ $N_1 := 3.65886$

$N_2 := 3.02367$ $N_3 := 2.28849$

$N_4 := 4.44602$ $N_5 := 1.55690$ $N_6 := 1.73798$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$ $F := \frac{1}{N_6}$

Descriptions.

$HJ := \frac{N_2}{N_1 + N_2}$ $BE := N_3 \cdot HJ$

$DE := \frac{BE}{N_4}$ $BG := \frac{BE}{1 - DE}$

$FG := \frac{BG}{N_5}$ $R_1 := \frac{N_6}{FG}$

$R_1 = 2.004539$ $R_2 := \frac{1}{R_1}$

Definitions.

$R_1 - \frac{N_5 \cdot N_6 \cdot (N_1 \cdot N_4 - N_2 \cdot N_3 + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$ $N_6 - \frac{1}{F} = 0$

$R_1 - \frac{(A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot F} = 0$ $R_2 - \frac{A \cdot E \cdot F}{(A \cdot C - A \cdot D + B \cdot C)} = 0$

$R_1 - \frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0.00000$

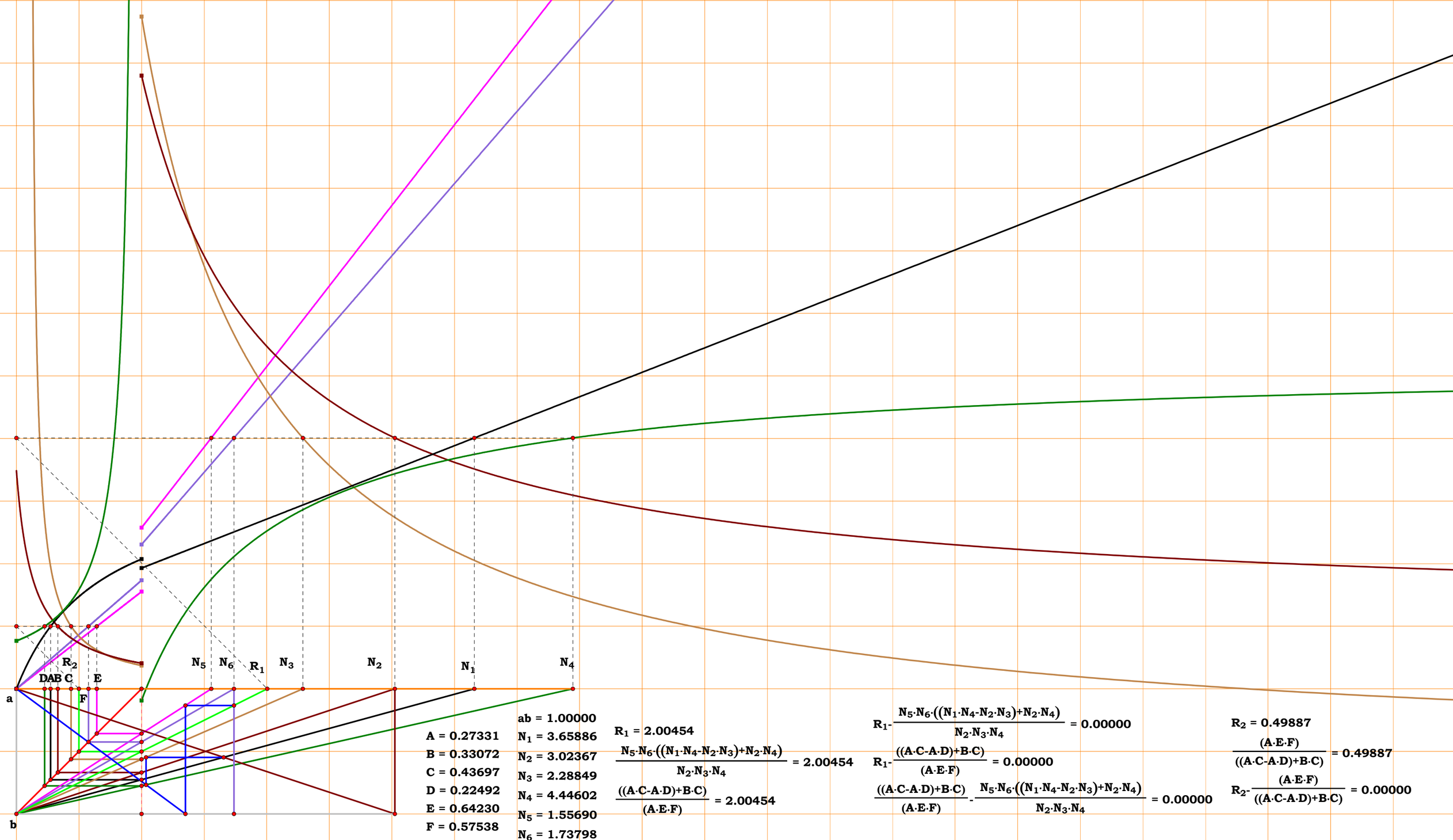
$R_1 - \frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} = 0.00000$

$\frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} - \frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0.00000$

R2 = 0.49887

$\frac{(A \cdot E \cdot F)}{((A \cdot C - A \cdot D) + B \cdot C)} = 0.49887$

$R_2 - \frac{(A \cdot E \cdot F)}{((A \cdot C - A \cdot D) + B \cdot C)} = 0.00000$



ab = 1.00000
N_1 = 3.65886
N_2 = 3.02367
N_3 = 2.28849
N_4 = 4.44602
N_5 = 1.55690
N_6 = 1.73798

A = 0.27331
B = 0.33072
C = 0.43697
D = 0.22492
E = 0.64230
F = 0.57538

$R_1 = 2.00454$

$$\frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 2.00454$$

$$\frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} = 2.00454$$

$$R_1 - \frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0.00000$$

$$R_1 - \frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} = 0.00000$$

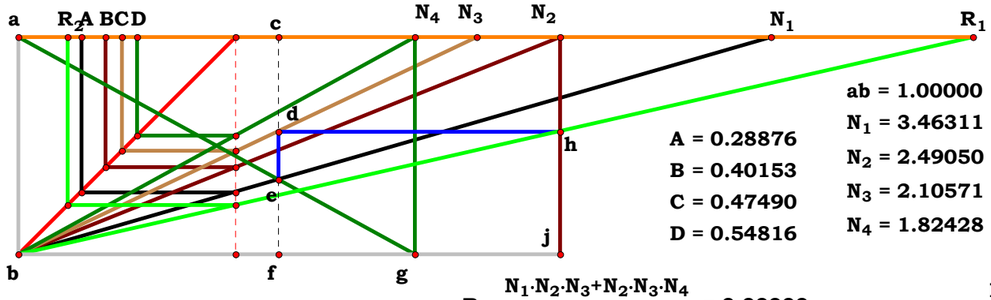
$$\frac{((A \cdot C - A \cdot D) + B \cdot C)}{(A \cdot E \cdot F)} - \frac{N_5 \cdot N_6 \cdot ((N_1 \cdot N_4 - N_2 \cdot N_3) + N_2 \cdot N_4)}{N_2 \cdot N_3 \cdot N_4} = 0.00000$$

$R_2 = 0.49887$

$$\frac{(A \cdot E \cdot F)}{((A \cdot C - A \cdot D) + B \cdot C)} = 0.49887$$

$$R_2 - \frac{(A \cdot E \cdot F)}{((A \cdot C - A \cdot D) + B \cdot C)} = 0.00000$$

1CST6R3



ab = 1.00000
N_1 = 3.46311
N_2 = 2.49050
N_3 = 2.10571
N_4 = 1.82428

A = 0.28876
B = 0.40153
C = 0.47490
D = 0.54816

R_1 = 4.38903

$$\frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 4.38903$$

$$\frac{(A+D)}{(B \cdot C)} = 4.38903$$

Given.

Unit. $AB := 1$ $N_1 := 3.46311$

$N_2 := 2.49050$ $N_3 := 2.10571$ $N_4 := 1.82428$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$BF := \frac{N_1 \cdot N_4}{N_1 + N_4} \quad CD := \frac{N_3 - BF}{N_3} \quad R_1 := \frac{N_2}{1 - CD}$$

$R_1 = 4.389031$ $R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0$$

$$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(A+D)}{B \cdot C} = 0 \quad R_2 - \frac{B \cdot C}{(A+D)} = 0$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0.00000$$

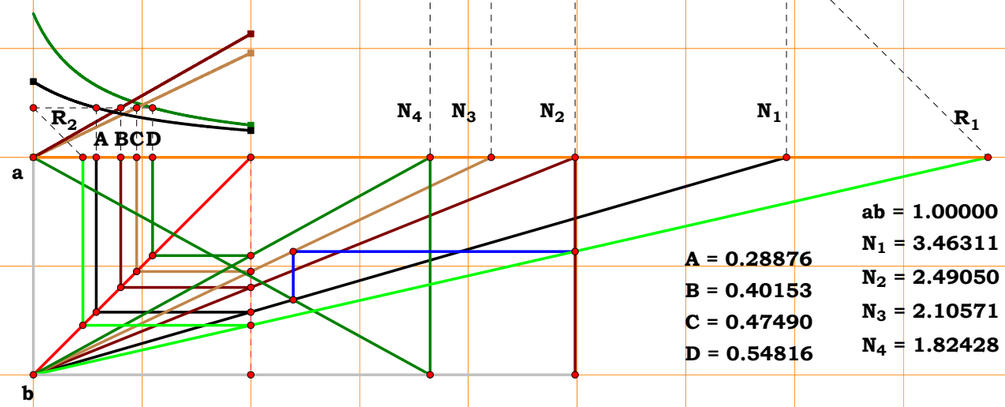
$$R_1 - \frac{(A+D)}{(B \cdot C)} = 0.00000$$

$$\frac{(A+D)}{(B \cdot C)} - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0.00000$$

R_2 = 0.22784

$$\frac{(B \cdot C)}{(A+D)} = 0.22784$$

$$R_2 - \frac{(B \cdot C)}{(A+D)} = 0.00000$$



A = 0.28876
B = 0.40153
C = 0.47490
D = 0.54816

ab = 1.00000
N_1 = 3.46311
N_2 = 2.49050
N_3 = 2.10571
N_4 = 1.82428

$R_1 = 4.38903$

$$\frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 4.38903$$

$$\frac{(A+D)}{(B \cdot C)} = 4.38903$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0.00000$$

$$R_1 - \frac{(A+D)}{(B \cdot C)} = 0.00000$$

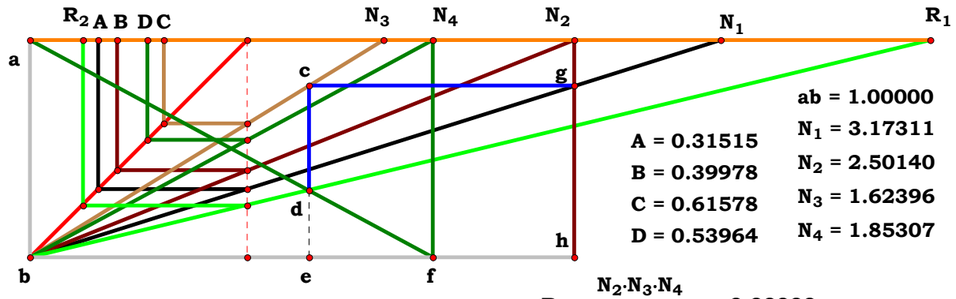
$$\frac{(A+D)}{(B \cdot C)} - \frac{N_1 \cdot N_2 \cdot N_3 + N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4} = 0.00000$$

$R_2 = 0.22784$

$$\frac{(B \cdot C)}{(A+D)} = 0.22784$$

$$R_2 - \frac{(B \cdot C)}{(A+D)} = 0.00000$$

1CST6R4



ab = 1.00000
N1 = 3.17311
N2 = 2.50140
N3 = 1.62396
N4 = 1.85307

A = 0.31515
B = 0.39978
C = 0.61578
D = 0.53964

Given.

Unit. $AB := 1$ $N_1 := 3.17311$

$N_2 := 2.50140$ $N_3 := 1.62396$ $N_4 := 1.85307$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$GH := \frac{N_2}{N_1} \quad BE := N_3 \cdot GH$$

$$DE := \frac{N_4 - BE}{N_4} \quad R_1 := \frac{BE}{DE}$$

$R_1 = 4.140941$ $R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{A}{B \cdot C - A \cdot D} = 0 \quad R_2 - \frac{B \cdot C - A \cdot D}{A} = 0$$

$R_1 = 4.14099$

$\frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 4.14099$

$\frac{A}{(B \cdot C - A \cdot D)} = 4.14099$

$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$

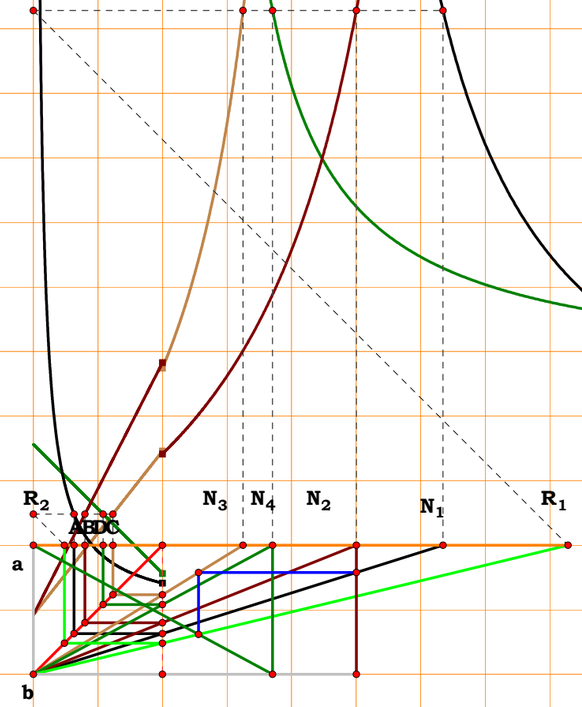
$R_1 - \frac{A}{(B \cdot C - A \cdot D)} = 0.00000$

$\frac{A}{(B \cdot C - A \cdot D)} - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$

$R_2 = 0.24149$

$\frac{(B \cdot C - A \cdot D)}{A} = 0.24149$

$R_2 - \frac{(B \cdot C - A \cdot D)}{A} = 0.00000$



A = 0.31515
B = 0.39978
C = 0.61578
D = 0.53964

ab = 1.00000
N_1 = 3.17311
N_2 = 2.50140
N_3 = 1.62396
N_4 = 1.85307

R_1 = 4.14099

$$\frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 4.14099$$

$$\frac{A}{(B \cdot C - A \cdot D)} = 4.14099$$

$$R_1 - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{A}{(B \cdot C - A \cdot D)} = 0.00000$$

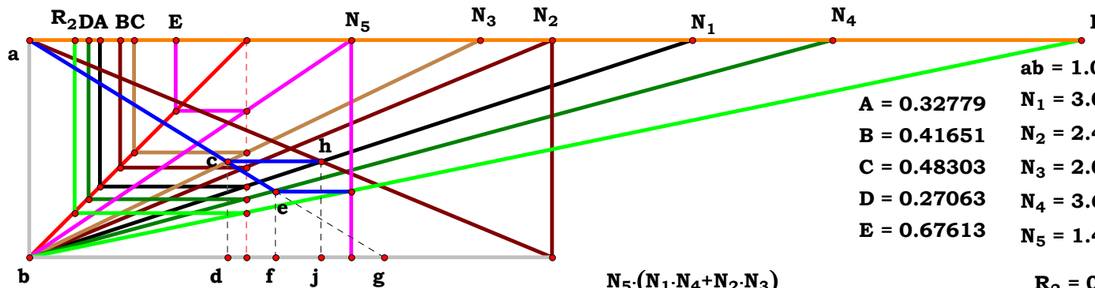
$$\frac{A}{(B \cdot C - A \cdot D)} - \frac{N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

R_2 = 0.24149

$$\frac{(B \cdot C - A \cdot D)}{A} = 0.24149$$

$$R_2 - \frac{(B \cdot C - A \cdot D)}{A} = 0.00000$$

1CST6R5



Given.

Unit. $ab := 1$ $N_1 := 3.05078$

$N_2 := 2.40088$ $N_3 := 2.07026$

$N_4 := 3.69504$ $N_5 := 1.47901$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$hj := \frac{N_2}{N_1 + N_2} \qquad bd := N_3 \cdot hj \qquad bg := \frac{bd}{1 - hj}$$

$$ef := \frac{bg}{bg + N_4} \qquad R_1 := \frac{N_5}{ef}$$

$R_1 = 4.83334$ $\qquad R_2 := \frac{1}{R_1}$

Definitions.

$$R_1 - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot N_3)}{N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{(A \cdot D + B \cdot C)}{A \cdot E \cdot D} = 0 \qquad R_2 - \frac{A \cdot E \cdot D}{(A \cdot D + B \cdot C)} = 0$$

$A = 0.32779$
$B = 0.41651$
$C = 0.48303$
$D = 0.27063$
$E = 0.67613$

$ab = 1.00000$
$N_1 = 3.05078$
$N_2 = 2.40088$
$N_3 = 2.07026$
$N_4 = 3.69504$
$N_5 = 1.47901$

$R_1 = 4.83333$

$$\frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot N_3)}{N_2 \cdot N_3} = 4.83333$$

$$\frac{(A \cdot D + B \cdot C)}{(A \cdot D \cdot E)} = 4.83333$$

$$R_1 - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot N_3)}{N_2 \cdot N_3} = 0.00000$$

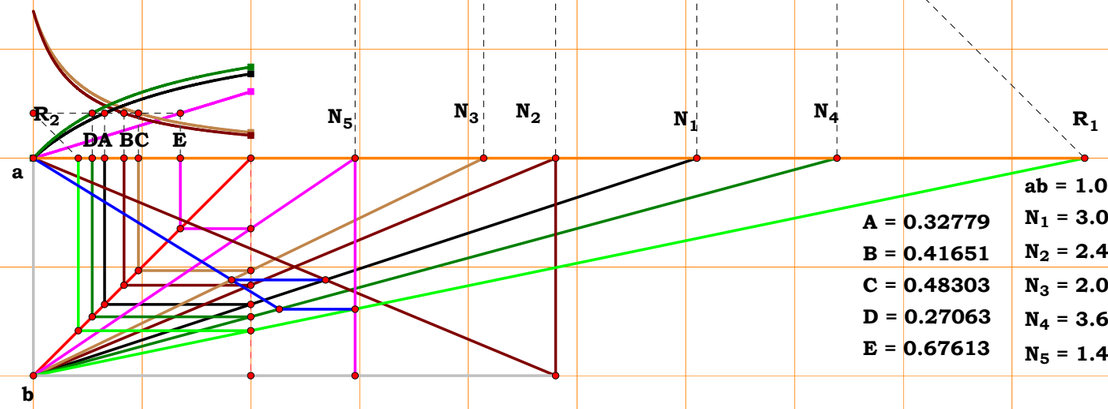
$$R_1 - \frac{(A \cdot D + B \cdot C)}{(A \cdot D \cdot E)} = 0.00000$$

$$\frac{(A \cdot D + B \cdot C)}{(A \cdot D \cdot E)} - \frac{N_5 \cdot (N_1 \cdot N_4 + N_2 \cdot N_3)}{N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.20690$

$$\frac{(A \cdot D \cdot E)}{(A \cdot D + B \cdot C)} = 0.20690$$

$$R_2 - \frac{(A \cdot D \cdot E)}{(A \cdot D + B \cdot C)} = 0.00000$$



A = 0.32779
B = 0.41651
C = 0.48303
D = 0.27063
E = 0.67613

ab = 1.00000
N_1 = 3.05078
N_2 = 2.40088
N_3 = 2.07026
N_4 = 3.69504
N_5 = 1.47901

$R_1 = 4.83333$

$$\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot N_3)}{N_2\cdot N_3} = 4.83333$$

$$\frac{(A\cdot D+B\cdot C)}{(A\cdot D\cdot E)} = 4.83333$$

$$R_1-\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot N_3)}{N_2\cdot N_3} = 0.00000$$

$$R_1-\frac{(A\cdot D+B\cdot C)}{(A\cdot D\cdot E)} = 0.00000$$

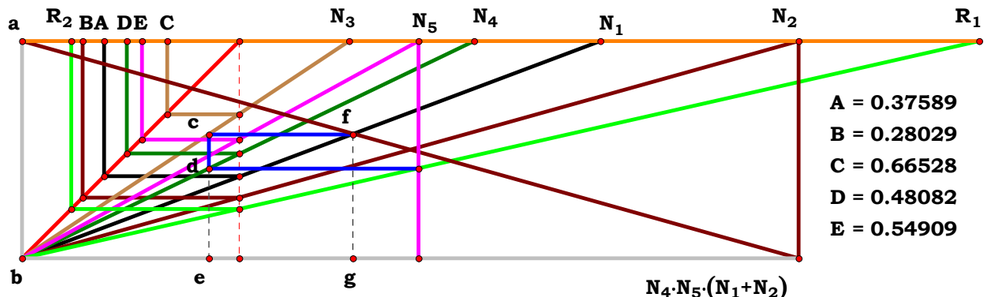
$$\frac{(A\cdot D+B\cdot C)}{(A\cdot D\cdot E)}-\frac{N_5\cdot(N_1\cdot N_4+N_2\cdot N_3)}{N_2\cdot N_3} = 0.00000$$

$R_2 = 0.20690$

$$\frac{(A\cdot D\cdot E)}{(A\cdot D+B\cdot C)} = 0.20690$$

$$R_2-\frac{(A\cdot D\cdot E)}{(A\cdot D+B\cdot C)} = 0.00000$$

1CST6R6



A = 0.37589
B = 0.28029
C = 0.66528
D = 0.48082
E = 0.54909

ab = 1.00000
N_1 = 2.66038
N_2 = 3.56774
N_3 = 1.50313
N_4 = 2.07979
N_5 = 1.82120

R_1 = 4.39891

$\frac{N_4 \cdot N_5 \cdot (N_1+N_2)}{N_2 \cdot N_3}$ = 4.39891

$\frac{(C \cdot (A+B))}{(A \cdot D \cdot E)}$ = 4.39891

Given.

Unit. $ab := 1$ $N_1 := 2.66038$

$N_2 := 3.56774$ $N_3 := 1.50313$

$N_4 := 2.07979$ $N_5 := 1.82120$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$

Descriptions.

$fg := \frac{N_2}{N_1 + N_2}$ $be := N_3 \cdot fg$

$de := \frac{be}{N_4}$ $R_1 := \frac{N_5}{de}$

$R_1 = 4.398903$

Definitions.

$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$

$R_1 - \frac{C \cdot (A + B)}{A \cdot D \cdot E} = 0$

$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1+N_2)}{N_2 \cdot N_3}$ = 0.00000

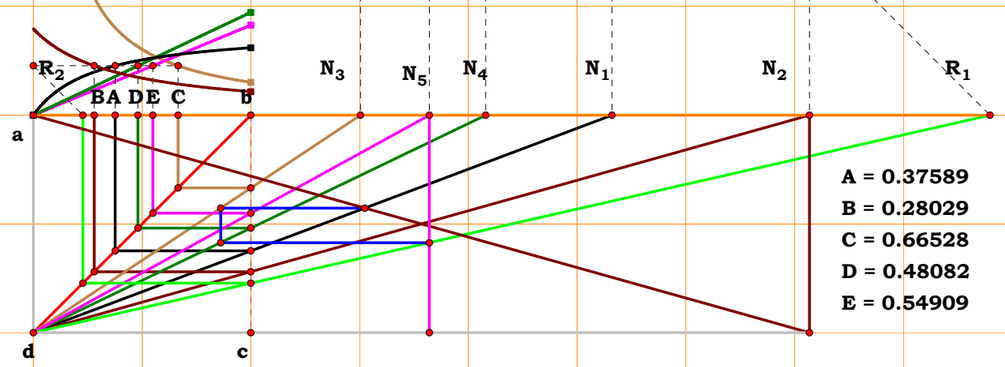
$R_1 - \frac{(C \cdot (A+B))}{(A \cdot D \cdot E)}$ = 0.00000

$\frac{(C \cdot (A+B))}{(A \cdot D \cdot E)} - \frac{N_4 \cdot N_5 \cdot (N_1+N_2)}{N_2 \cdot N_3}$ = 0.00000

R_2 = 0.22733

$\frac{(A \cdot D \cdot E)}{(C \cdot (A+B))}$ = 0.22733

$R_2 - \frac{(A \cdot D \cdot E)}{(C \cdot (A+B))}$ = 0.00000



$A = 0.37589$
$B = 0.28029$
$C = 0.66528$
$D = 0.48082$
$E = 0.54909$

$ab = 1.00000$
$N_1 = 2.66038$
$N_2 = 3.56774$
$N_3 = 1.50313$
$N_4 = 2.07979$
$N_5 = 1.82120$

$R_1 = 4.39891$

$$\frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} = 4.39891$$

$$\frac{(C \cdot (A+B))}{(A \cdot D \cdot E)} = 4.39891$$

$$R_1 - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{(C \cdot (A+B))}{(A \cdot D \cdot E)} = 0.00000$$

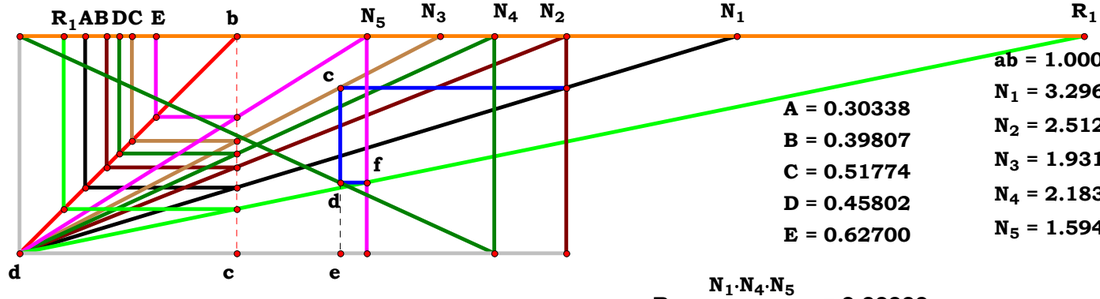
$$\frac{(C \cdot (A+B))}{(A \cdot D \cdot E)} - \frac{N_4 \cdot N_5 \cdot (N_1 + N_2)}{N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.22733$

$$\frac{(A \cdot D \cdot E)}{(C \cdot (A+B))} = 0.22733$$

$$R_2 - \frac{(A \cdot D \cdot E)}{(C \cdot (A+B))} = 0.00000$$

1CST6R7



Given.

Unit. $ab := 1$ $N_1 := 3.29615$

$N_2 := 2.51211$ $N_3 := 1.93148$

$N_4 := 2.18330$ $N_5 := 1.59491$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$ce := \frac{N_2}{N_1} \qquad be := ce \cdot N_3$$

$$de := 1 - \frac{be}{N_4} \qquad R_1 := \frac{N_5}{de}$$

$R_1 = 4.895826$

Definitions.

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{B \cdot C}{E \cdot (B \cdot C - A \cdot D)} = 0$$

$A = 0.30338$
$B = 0.39807$
$C = 0.51774$
$D = 0.45802$
$E = 0.62700$

$ab = 1.00000$
$N_1 = 3.29615$
$N_2 = 2.51211$
$N_3 = 1.93148$
$N_4 = 2.18330$
$N_5 = 1.59491$

$R_1 = 4.89578$

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 4.89578$$

$$\frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} = 4.89578$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

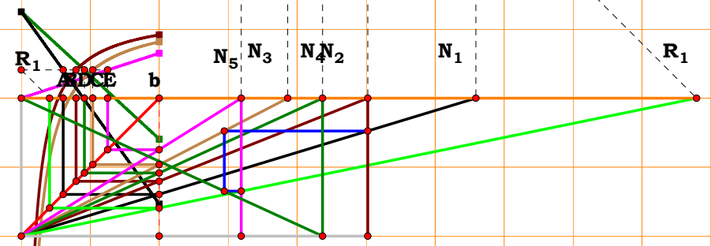
$$R_1 - \frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} = 0.00000$$

$$\frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.20426$

$$\frac{(E \cdot (B \cdot C - A \cdot D))}{(B \cdot C)} = 0.20426$$

$$R_2 - \frac{(E \cdot (B \cdot C - A \cdot D))}{(B \cdot C)} = 0.00000$$



A = 0.30338
B = 0.39807
C = 0.51774
D = 0.45802
E = 0.62700

ab = 1.00000
N_1 = 3.29615
N_2 = 2.51211
N_3 = 1.93148
N_4 = 2.18330
N_5 = 1.59491

$R_1 = 4.89578$

$$\frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 4.89578$$

$$\frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} = 4.89578$$

$$R_1 - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} = 0.00000$$

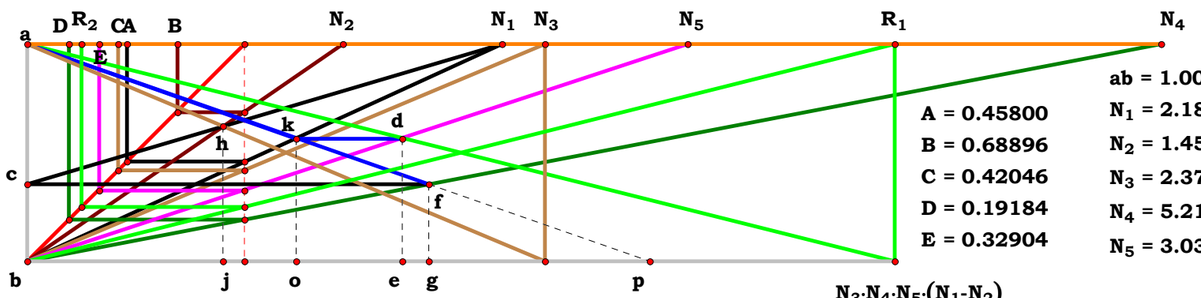
$$\frac{(B \cdot C)}{(E \cdot (B \cdot C - A \cdot D))} - \frac{N_1 \cdot N_4 \cdot N_5}{N_1 \cdot N_4 - N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.20426$

$$\frac{(E \cdot (B \cdot C - A \cdot D))}{(B \cdot C)} = 0.20426$$

$$R_2 - \frac{(E \cdot (B \cdot C - A \cdot D))}{(B \cdot C)} = 0.00000$$

1CST7R0



ab = 1.00000
A = 0.45800
B = 0.68896
C = 0.42046
D = 0.19184
E = 0.32904
N1 = 2.18340
N2 = 1.45145
N3 = 2.37837
N4 = 5.21277
N5 = 3.03917

R1 = 3.98577

$\frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 3.98577$

$\frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} = 3.98577$

$R_1 - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0.00000$

$R_1 - \frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} = 0.00000$

$\frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0.00000$

R2 = 0.25089

$\frac{(C \cdot D \cdot E)}{(A \cdot (B-A))} = 0.25089$

$R_2 - \frac{(C \cdot D \cdot E)}{(A \cdot (B-A))} = 0.00000$

Given.

Unit. $ab := 1$ $N_1 := 2.18340$

$N_2 := 1.45145$ $N_3 := 2.37837$

$N_4 := 5.21277$ $N_5 := 3.03917$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$

Descriptions.

$hj := \frac{N_3}{N_2 + N_3}$ $bj := \frac{N_2 \cdot N_3}{N_2 + N_3}$ $ac := \frac{(1 - hj) \cdot N_1}{N_1 - bj}$

$bg := N_4 \cdot (1 - ac)$ $bp := \frac{bg}{ac}$ $ko := \frac{bp}{bp + N_1}$

$be := N_5 \cdot ko$ $R_1 := \frac{be}{1 - ko}$ $R_1 = 3.985802$

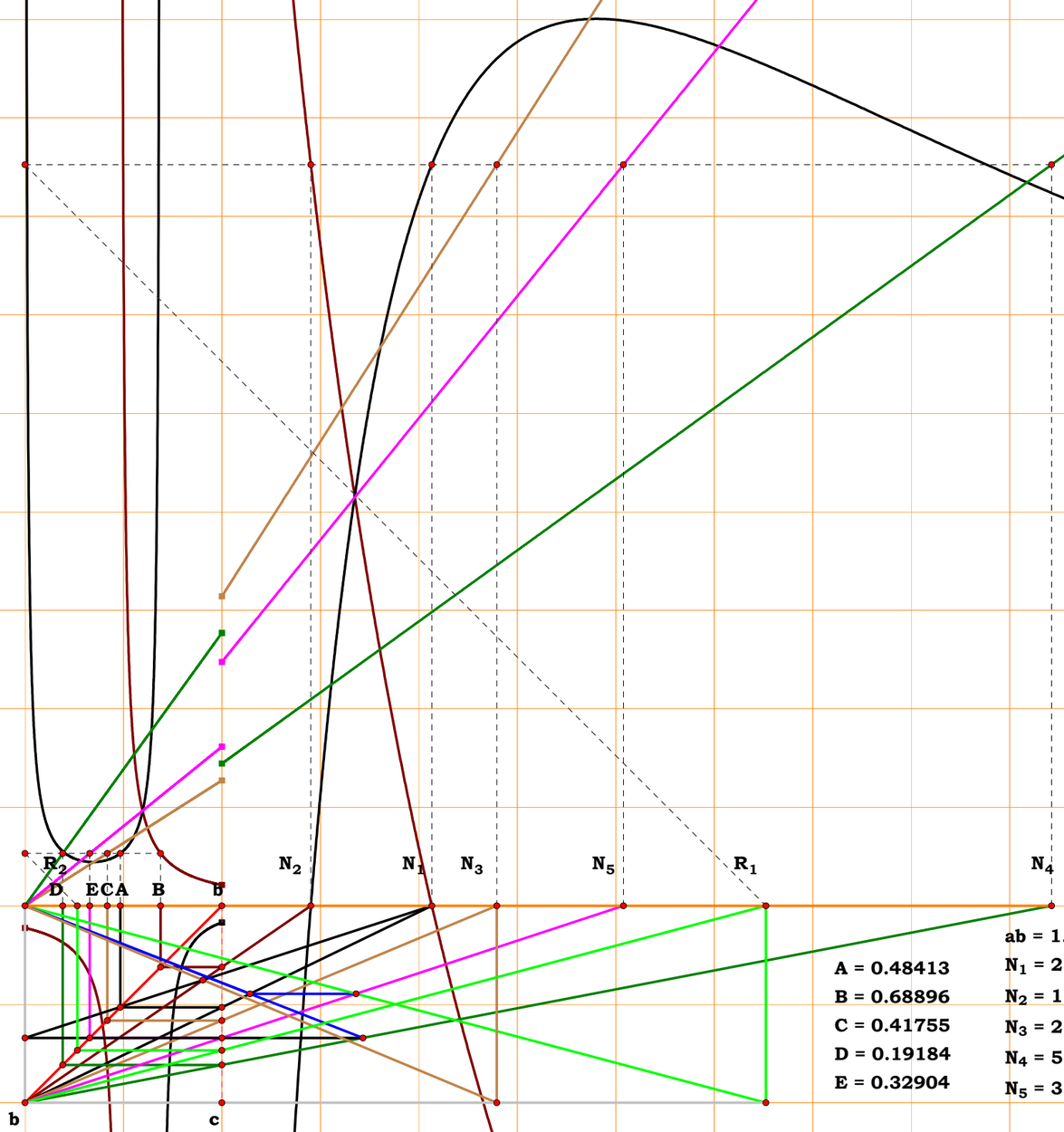
Definitions.

$R_1 - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$

$R_1 - \frac{A \cdot (B - A)}{C \cdot D \cdot E} = 0$



$ab = 1.00000$

$A = 0.48413$

$B = 0.68896$

$C = 0.41755$

$D = 0.19184$

$E = 0.32904$

$N_1 = 2.06558$

$N_2 = 1.45145$

$N_3 = 2.39491$

$N_4 = 5.21277$

$N_5 = 3.03917$

$R_1 = 3.76253$

$\frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 3.76253$

$\frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} = 3.76253$

$R_1 - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0.00000$

$R_1 - \frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} = 0.00000$

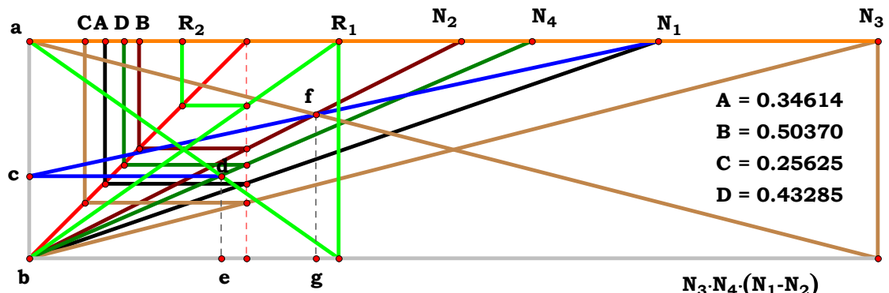
$\frac{(A \cdot (B-A))}{(C \cdot D \cdot E)} - \frac{N_3 \cdot N_4 \cdot N_5 \cdot (N_1 - N_2)}{N_1^2 \cdot N_2} = 0.00000$

$R_2 = 0.26578$

$\frac{(C \cdot D \cdot E)}{(A \cdot (B-A))} = 0.26578$

$R_2 - \frac{(C \cdot D \cdot E)}{(A \cdot (B-A))} = 0.00000$

1CST7R1



Given.

Unit. $ab := 1$ $N_1 := 2.88899$

$N_2 := 1.98532$ $N_3 := 3.90241$ $N_4 := 2.31026$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$

Descriptions.

$fg := \frac{N_3}{N_2 + N_3}$ $bg := \frac{N_2 \cdot N_3}{N_2 + N_3}$

$ac := \frac{N_1 \cdot (1 - fg)}{N_1 - bg}$ $de := 1 - ac$

$be := N_4 \cdot de$ $R_1 := \frac{be}{ac}$

$R_1 = 1.420454$

Definitions.

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$

$$R_1 - \frac{(B - A)}{C \cdot D} = 0$$

$ab = 1.00000$ $R_1 = 1.42047$

$N_1 = 2.88899$ $\frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 1.42047$

$N_2 = 1.98532$ $\frac{(B-A)}{(C \cdot D)} = 1.42047$

$N_3 = 3.90241$

$N_4 = 2.31026$

$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$

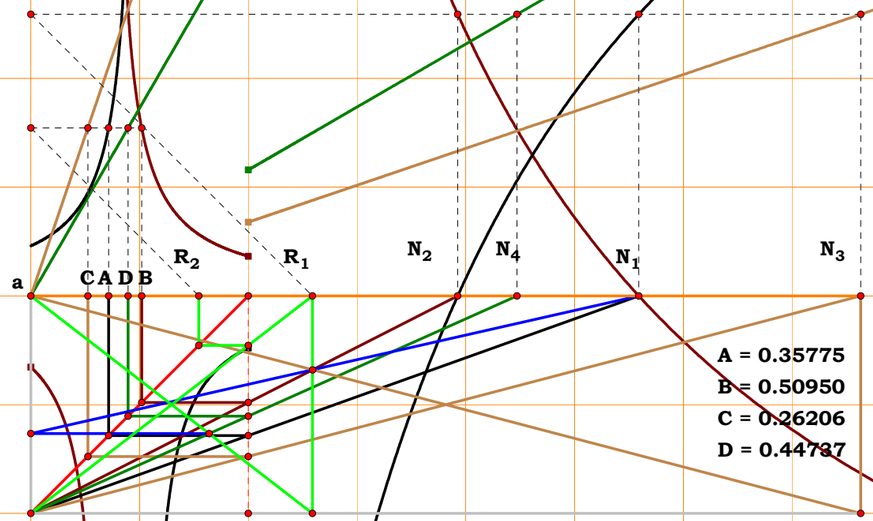
$R_1 - \frac{(B-A)}{(C \cdot D)} = 0.00000$

$\frac{(B-A)}{(C \cdot D)} - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$

$R_2 = 0.70399$

$\frac{(C \cdot D)}{(B-A)} = 0.70399$

$R_2 - \frac{(C \cdot D)}{(B-A)} = 0.00000$



A = 0.35775
B = 0.50950
C = 0.26206
D = 0.44737

ab = 1.00000
N_1 = 2.79523
N_2 = 1.96269
N_3 = 3.81596
N_4 = 2.23530

R_1 = 1.29441

$$\frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 1.29441$$

$$\frac{(B-A)}{(C \cdot D)} = 1.29441$$

$$R_1 - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$$

$$R_1 - \frac{(B-A)}{(C \cdot D)} = 0.00000$$

$$\frac{(B-A)}{(C \cdot D)} - \frac{N_3 \cdot N_4 \cdot (N_1 - N_2)}{N_1 \cdot N_2} = 0.00000$$

R_2 = 0.77255

$$\frac{(C \cdot D)}{(B-A)} = 0.77255$$

$$R_2 - \frac{(C \cdot D)}{(B-A)} = 0.00000$$

1CST7R2

Given.

Unit. $ab := 1 \quad N_1 := 2.18839$

$N_2 := 1.82738 \quad N_3 := 2.55787 \quad N_4 := 3.70379$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$ef := \frac{N_3}{N_2 + N_3} \quad bf := N_2 \cdot ef$$

$$ac := \frac{N_1 \cdot (1 - ef)}{N_1 - bf} \quad R_1 := N_4 \cdot ac$$

$R_1 = 3.008983$

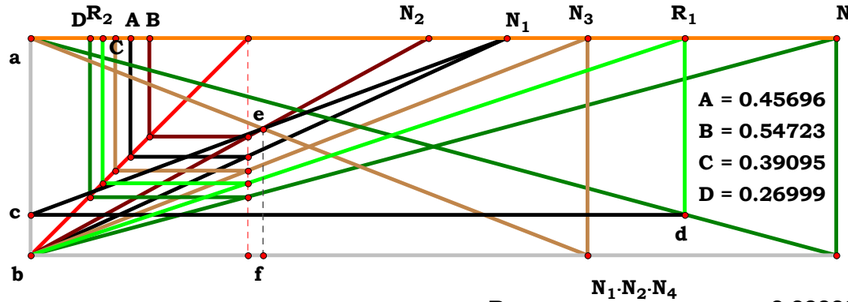
Definitions.

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_2 + N_1 \cdot N_3 - N_2 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{C}{D \cdot (B - A + C)} = 0$$



$ab = 1.00000$
$N_1 = 2.18839$
$N_2 = 1.82738$
$N_3 = 2.55787$
$N_4 = 3.70379$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{C}{(D \cdot ((B - A) + C))} = 0.00000$$

$$\frac{C}{(D \cdot ((B - A) + C))} - \frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 0.00000$$

$R_1 = 3.00899$

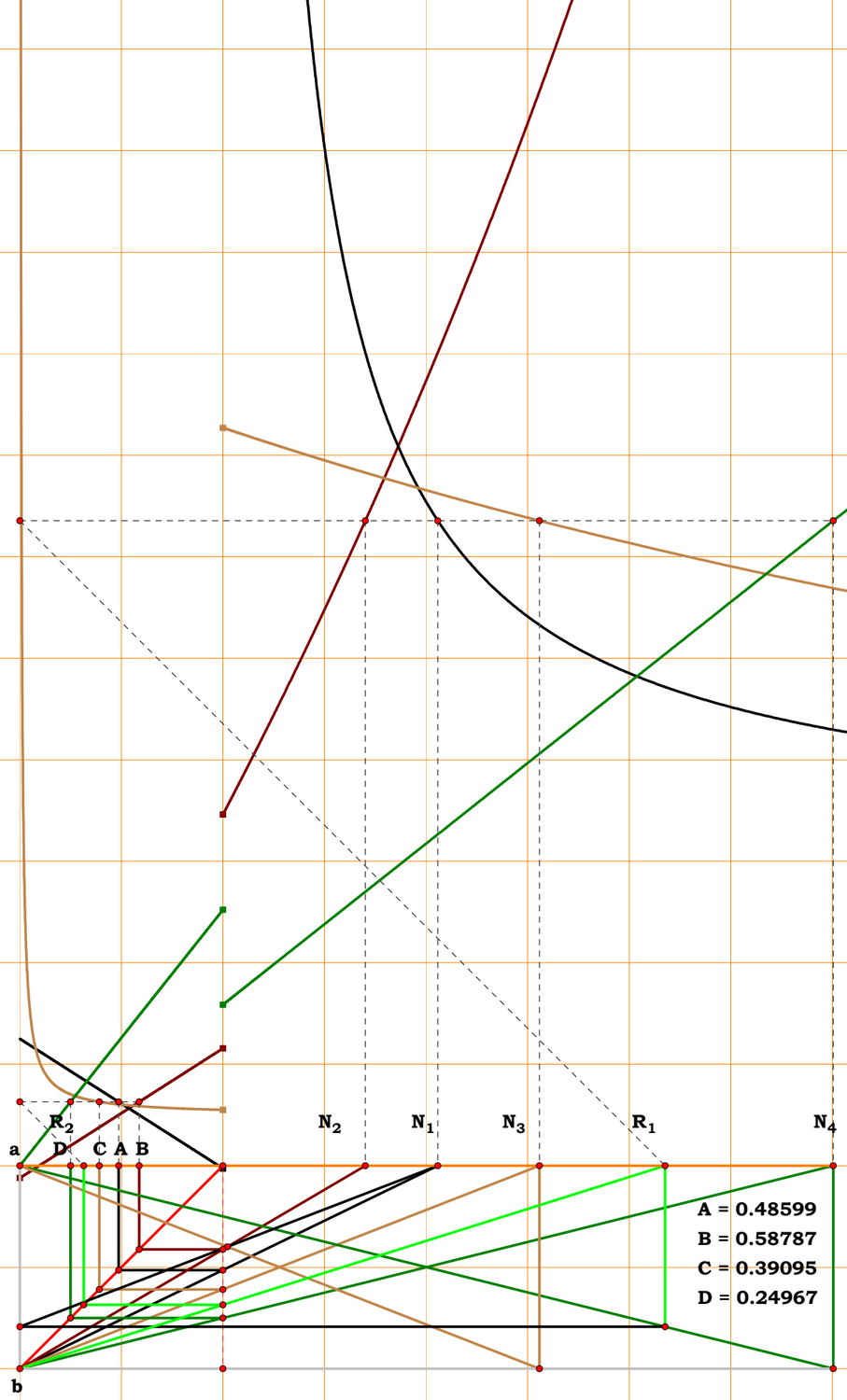
$$\frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 3.00899$$

$$\frac{C}{(D \cdot ((B - A) + C))} = 3.00899$$

$R_2 = 0.33234$

$$\frac{(D \cdot ((B - A) + C))}{C} = 0.33234$$

$$R_2 - \frac{(D \cdot ((B - A) + C))}{C} = 0.00000$$



$ab = 1.00000$

$N_1 = 2.05767$

$N_2 = 1.70106$

$N_3 = 2.55787$

$N_4 = 4.00522$

$R_1 = 3.17722$

$$\frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 3.17722$$

$$\frac{C}{(D \cdot ((B-A)+C))} = 3.17722$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{C}{(D \cdot ((B-A)+C))} = 0.00000$$

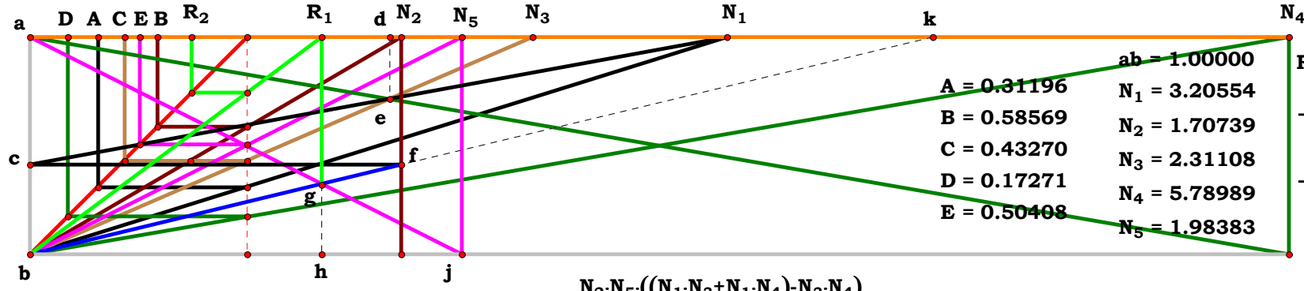
$$\frac{C}{(D \cdot ((B-A)+C))} - \frac{N_1 \cdot N_2 \cdot N_4}{(N_1 \cdot N_2 + N_1 \cdot N_3) - N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.31474$

$$\frac{(D \cdot ((B-A)+C))}{C} = 0.31474$$

$$R_2 - \frac{(D \cdot ((B-A)+C))}{C} = 0.00000$$

1CST7R3



A = 0.31196
B = 0.58569
C = 0.43270
D = 0.17271
E = 0.50408

ab = 1.00000
N1 = 3.20554
N2 = 1.70739
N3 = 2.31108
N4 = 5.78989
N5 = 1.98383

$R_1 = 1.34219$

$$\frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 1.34219$$

$$\frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} = 1.34219$$

Given.

Unit. $ab := 1$ $N_1 := 3.20554$

$N_2 := 1.70739$ $N_3 := 2.31108$

$N_4 := 5.78989$ $N_5 := 1.98383$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$ad := \frac{N_3 \cdot N_4}{N_3 + N_4} \qquad de := \frac{ad}{N_4}$$

$$ac := \frac{de \cdot N_1}{N_1 - ad} \qquad ak := \frac{N_2}{1 - ac}$$

$$R_1 := \frac{ak \cdot N_5}{ak + N_5} \qquad R_1 = 1.34219$$

Definitions.

$$R_1 - \frac{N_2 \cdot N_5 \cdot (N_1 \cdot N_3 + N_1 \cdot N_4 - N_3 \cdot N_4)}{N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4 + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{(C - A + D)}{B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E} = 0$$

$$R_1 - \frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0.00000$$

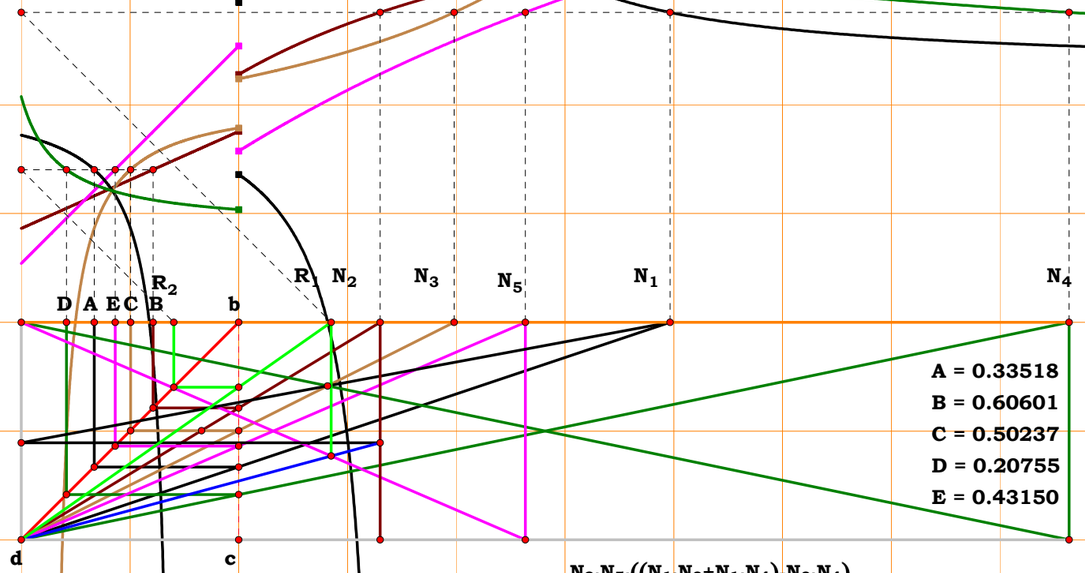
$$R_1 - \frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} = 0.00000$$

$$\frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} - \frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0.00000$$

$R_2 = 0.74505$

$$\frac{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)}{((C-A)+D)} = 0.74505$$

$$R_2 - \frac{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)}{((C-A)+D)} = 0.00000$$



A = 0.33518
B = 0.60601
C = 0.50237
D = 0.20755
E = 0.43150

$ab = 1.00000$
$N_1 = 2.98344$
$N_2 = 1.65014$
$N_3 = 1.99058$
$N_4 = 4.81813$
$N_5 = 2.31747$

$$R_1 = 1.42476$$

$$\frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 1.42476$$

$$\frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} = 1.42476$$

$$R_1 - \frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0.00000$$

$$R_1 - \frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} = 0.00000$$

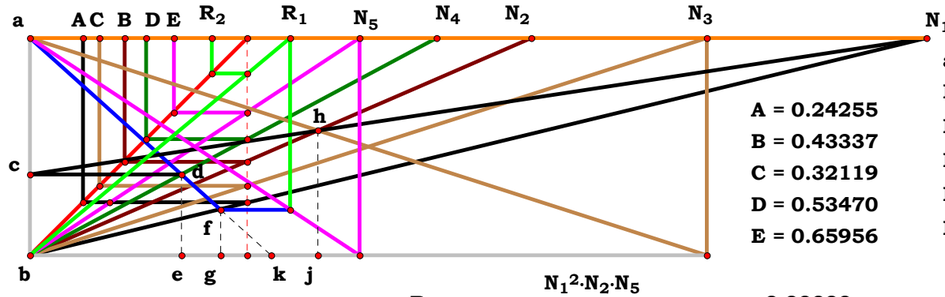
$$\frac{((C-A)+D)}{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)} - \frac{N_2 \cdot N_5 \cdot ((N_1 \cdot N_3 + N_1 \cdot N_4) - N_3 \cdot N_4)}{(N_1 \cdot N_2 \cdot (N_3 + N_4) - N_2 \cdot N_3 \cdot N_4) + N_4 \cdot N_5 \cdot (N_1 - N_3)} = 0.00000$$

$$R_2 = 0.70187$$

$$\frac{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)}{((C-A)+D)} = 0.70187$$

$$R_2 - \frac{((B \cdot C - A \cdot B - A \cdot E) + C \cdot E + D \cdot E)}{((C-A)+D)} = 0.00000$$

1CST7R4



ab = 1.00000

$N_1 = 4.12280$ $N_2 = 2.30749$ $N_3 = 3.11345$ $N_4 = 1.87019$ $N_5 = 1.51616$

A = 0.24255
B = 0.43337
C = 0.32119
D = 0.53470
E = 0.65956

$R_1 = 1.19429$

$$\frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 1.19429$$

$$\frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} = 1.19429$$

Given.

Unit. ab := 1 $N_1 := 4.12280$

$N_2 := 2.30749$ $N_3 := 3.11345$

$N_4 := 1.87019$ $N_5 := 1.51616$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$hj := \frac{N_3}{N_2 + N_3} \qquad bj := \frac{N_2 \cdot N_3}{N_2 + N_3}$$

$$ac := \frac{N_1 \cdot (1 - hj)}{N_1 - bj} \qquad be := N_4 \cdot (1 - ac)$$

$$bk := \frac{be}{ac} \qquad FG := \frac{bk}{bk + N_1}$$

$R_1 := N_5 \cdot (1 - FG)$ $R_1 = 1.1943$

Definitions.

$$R_1 - \frac{N_1^2 \cdot N_2 \cdot N_5}{N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4 - N_2 \cdot N_3 \cdot N_4} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{C \cdot D}{E \cdot \left(B \cdot A - A^2 + C \cdot D\right)} = 0$$

$$R_1 - \frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 0.00000$$

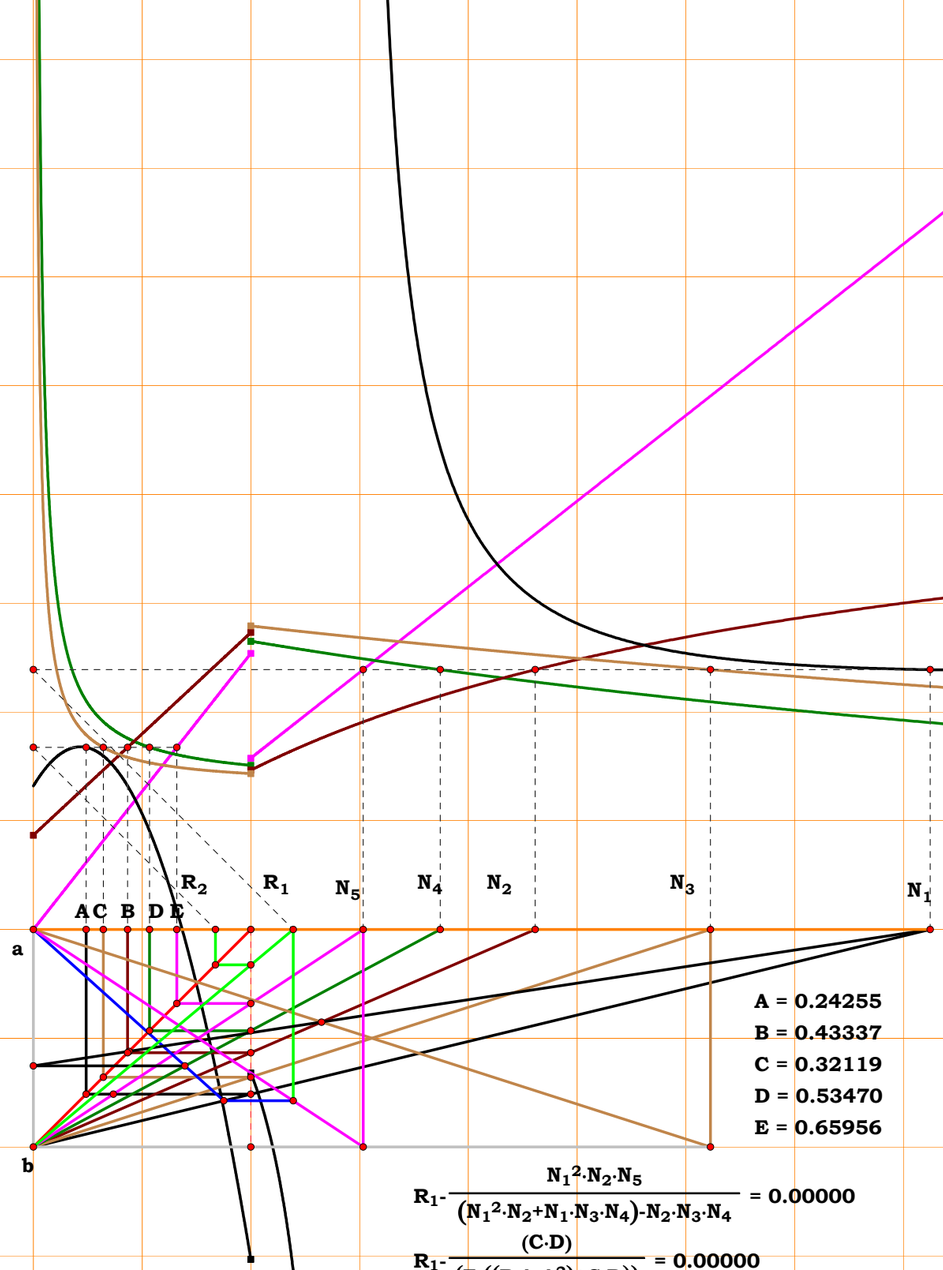
$$R_1 - \frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} = 0.00000$$

$$\frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} - \frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 0.00000$$

$R_2 = 0.83731$

$$\frac{(E \cdot ((B \cdot A - A^2) + C \cdot D))}{(C \cdot D)} = 0.83731$$

$$R_2 - \frac{(E \cdot ((B \cdot A - A^2) + C \cdot D))}{(C \cdot D)} = 0.00000$$



A = 0.24255
B = 0.43337
C = 0.32119
D = 0.53470
E = 0.65956

ab = 1.00000
N_1 = 4.12280
N_2 = 2.30749
N_3 = 3.11345
N_4 = 1.87019
N_5 = 1.51616

$R_1 = 1.19429$

$$\frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 1.19429$$

$$\frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} = 1.19429$$

$$R_1 - \frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 0.00000$$

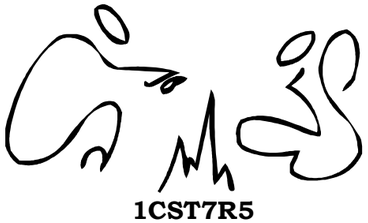
$$R_1 - \frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} = 0.00000$$

$$\frac{(C \cdot D)}{(E \cdot ((B \cdot A - A^2) + C \cdot D))} - \frac{N_1^2 \cdot N_2 \cdot N_5}{(N_1^2 \cdot N_2 + N_1 \cdot N_3 \cdot N_4) - N_2 \cdot N_3 \cdot N_4} = 0.00000$$

$R_2 = 0.83731$

$$\frac{(E \cdot ((B \cdot A - A^2) + C \cdot D))}{(C \cdot D)} = 0.83731$$

$$R_2 - \frac{(E \cdot ((B \cdot A - A^2) + C \cdot D))}{(C \cdot D)} = 0.00000$$



1CST7R5

Given.

Unit. $ab := 1$ $N_1 := 3.14079$

$N_2 := 3.73524$

$N_3 := 1.45348$ $N_4 := 1.91129$

$N_5 := 2.24401$ $N_6 := 1.66218$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5} \quad F := \frac{1}{N_6}$$

Descriptions.

$$fg := \frac{N_2}{N_2 + N_3} \qquad bg := \frac{N_2 \cdot N_3}{N_2 + N_3} \qquad ac := \frac{N_1 \cdot (1 - fg)}{N_1 - bg}$$

$$be := N_4 \cdot (1 - ac) \qquad bk := \frac{be}{ac} \qquad hj := \frac{bk}{bk + N_1}$$

$$ao := \frac{N_5}{hj} \qquad R_1 := \frac{N_6 \cdot ao}{N_6 + ao} \qquad R_1 = 1.242115$$

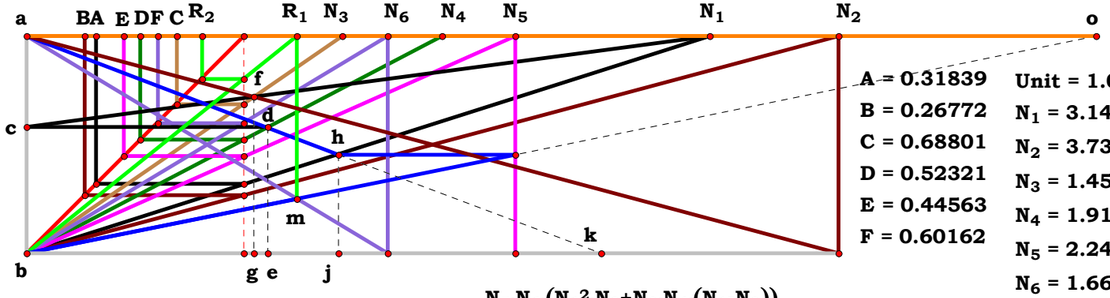
Definitions.

$$R_1 - \frac{N_5 \cdot N_6 \cdot \left[N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3)\right]}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0$$

$$N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0 \qquad N_6 - \frac{1}{F} = 0$$

$$R_1 - \frac{(C \cdot A - A^2 + B \cdot D)}{A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F} = 0$$



A = 0.31839
B = 0.26772
C = 0.68801
D = 0.52321
E = 0.44563
F = 0.60162

Unit = 1.00000
N_1 = 3.14079
N_2 = 3.73524
N_3 = 1.45348
N_4 = 1.91129
N_5 = 2.24401
N_6 = 1.66218

$$R_1 - \frac{N_5 \cdot N_6 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0.00000$$

$$R_1 - \frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} = 0.00000$$

$$\frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} - \frac{N_5 \cdot N_6 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0.00000$$

$R_1 = 1.24211$

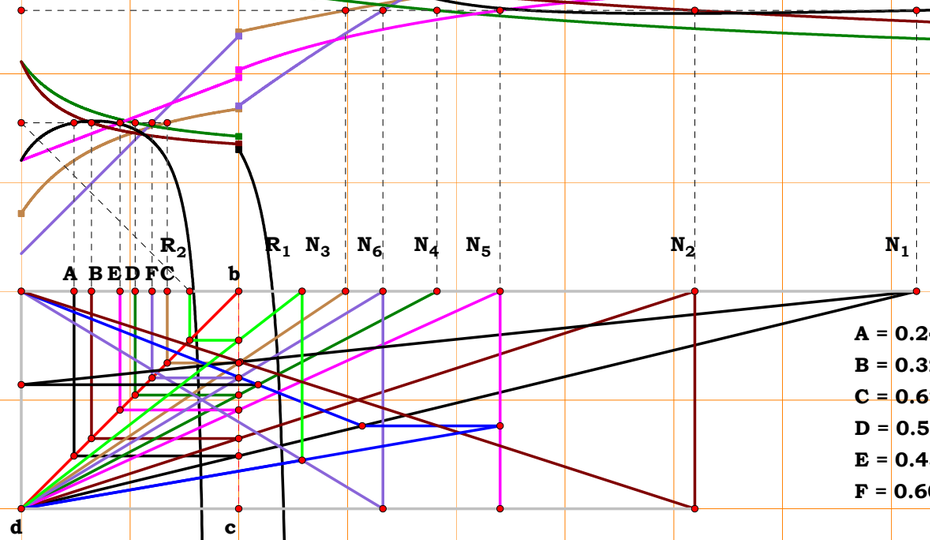
$$\frac{N_5 \cdot N_6 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 1.24211$$

$$\frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} = 1.24211$$

$R_2 = 0.80508$

$$\frac{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)}{((A \cdot C - A^2) + B \cdot D)} = 0.80508$$

$$R_2 - \frac{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)}{((A \cdot C - A^2) + B \cdot D)} = 0.00000$$



Unit = 1.00000

N_1 = 4.11664

N_2 = 3.09718

N_3 = 1.49123

N_4 = 1.91129

N_5 = 2.20099

N_6 = 1.66218

A = 0.24292

B = 0.32287

C = 0.67059

D = 0.52321

E = 0.45434

F = 0.60162

$R_1 = 1.29094$

$$\frac{N_5 \cdot N_6 \cdot (N_1^2 \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 1.29094$$

$$\frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} = 1.29094$$

$$R_1 - \frac{N_5 \cdot N_6 \cdot (N_1^2 \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0.00000$$

$$R_1 - \frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} = 0.00000$$

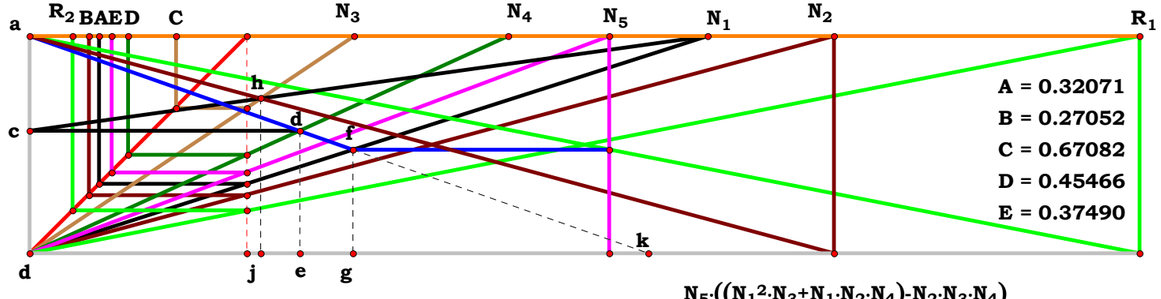
$R_2 = 0.77463$

$$\frac{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)}{((A \cdot C - A^2) + B \cdot D)} = 0.77463$$

$$R_2 - \frac{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)}{((A \cdot C - A^2) + B \cdot D)} = 0.00000$$

$$\frac{((A \cdot C - A^2) + B \cdot D)}{((A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E) + A \cdot C \cdot F + B \cdot D \cdot F)} - \frac{N_5 \cdot N_6 \cdot (N_1^2 \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_1 \cdot N_5 \cdot (N_1 \cdot N_3 + N_2 \cdot N_4) + N_2 \cdot N_4 \cdot (N_1 \cdot N_6 - N_3 \cdot N_5 - N_3 \cdot N_6)} = 0.00000$$

1CST7R6



A = 0.32071
B = 0.27052
C = 0.67082
D = 0.45466
E = 0.37490

ab = 1.00000
N_1 = 3.11808
N_2 = 3.69662
N_3 = 1.49072
N_4 = 2.19943
N_5 = 2.66738

$R_1 = 5.10246$

$$\frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 5.10246$$

$$\frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)} = 5.10246$$

Given.

Unit. ab := 1 $N_1 := 3.11808$

$N_2 := 3.69662$ $N_3 := 1.49072$

$N_4 := 2.19943$ $N_5 := 2.66738$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$$

Descriptions.

$$hj := \frac{N_2}{N_2 + N_3} \qquad bj := hj \cdot N_3$$

$$ac := \frac{N_1 \cdot (1 - hj)}{N_1 - bj} \qquad be := N_4 \cdot (1 - ac)$$

$$bk := \frac{be}{ac} \qquad fg := \frac{bk}{N_1 + bk}$$

$$R_1 := \frac{N_5}{(1 - fg)} \qquad R_1 = 5.102458$$

Definitions.

$$R_1 - \frac{N_5 \cdot \left(N_1^{\,2} \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4\right)}{N_1^{\,2} \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0 \qquad N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0 \qquad N_5 - \frac{1}{E} = 0$$

$$R_1 - \frac{\left(C \cdot A - A^2 + B \cdot D\right)}{B \cdot D \cdot E} = 0$$

$$R_1 - \frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 0.00000$$

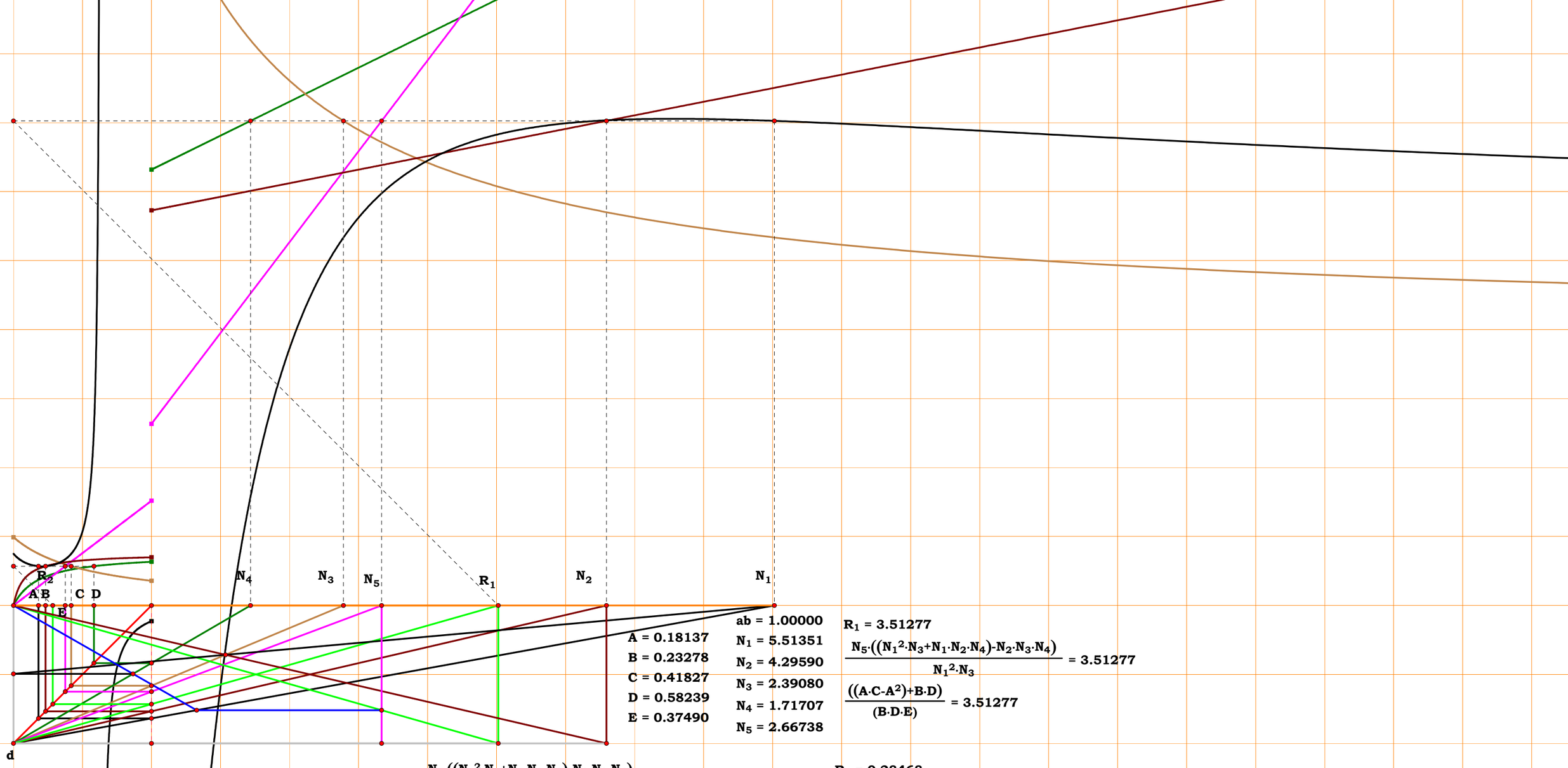
$$R_1 - \frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)} = 0.00000$$

$$\frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)} - \frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 0.00000$$

$R_2 = 0.19598$

$$\frac{(B\cdot D\cdot E)}{((A\cdot C-A^2)+B\cdot D)} = 0.19598$$

$$R_2 - \frac{(B\cdot D\cdot E)}{((A\cdot C-A^2)+B\cdot D)} = 0.00000$$



ab = 1.00000
N_1 = 5.51351
N_2 = 4.29590
N_3 = 2.39080
N_4 = 1.71707
N_5 = 2.66738

A = 0.18137
B = 0.23278
C = 0.41827
D = 0.58239
E = 0.37490

$R_1 = 3.51277$

$$\frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 3.51277$$

$$\frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)} = 3.51277$$

$$R_1-\frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 0.00000$$

$$R_1-\frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)} = 0.00000$$

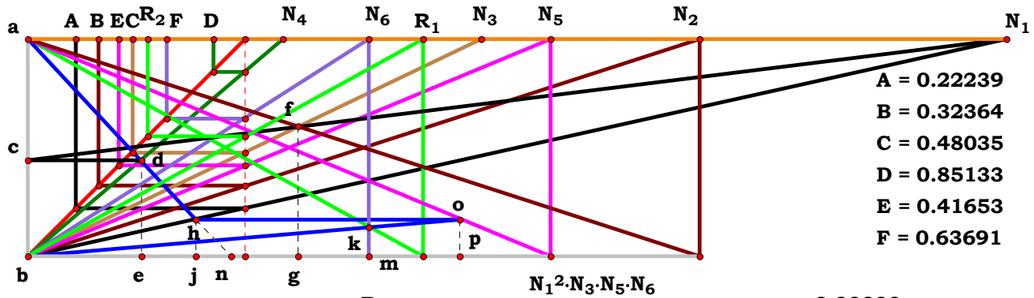
$$\frac{((A\cdot C-A^2)+B\cdot D)}{(B\cdot D\cdot E)}-\frac{N_5\cdot((N_1^2\cdot N_3+N_1\cdot N_2\cdot N_4)-N_2\cdot N_3\cdot N_4)}{N_1^2\cdot N_3} = 0.00000$$

$R_2 = 0.28468$

$$\frac{(B\cdot D\cdot E)}{((A\cdot C-A^2)+B\cdot D)} = 0.28468$$

$$R_2-\frac{(B\cdot D\cdot E)}{((A\cdot C-A^2)+B\cdot D)} = 0.00000$$

1CST7R7



Given.

Unit. $ab := 1$ $N_1 := 4.49660$

$N_2 := 3.08990$ $N_3 := 2.08183$

$N_4 := 1.17463$ $N_5 := 2.40079$ $N_6 := 1.57009$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$ $F := \frac{1}{N_6}$

$ab = 1.00000$

$N_1 = 4.49660$

$N_2 = 3.08990$

$N_3 = 2.08183$

$N_4 = 1.17463$

$N_5 = 2.40079$

$N_6 = 1.57009$

$A = 0.22239$

$B = 0.32364$

$C = 0.48035$

$D = 0.85133$

$E = 0.41653$

$F = 0.63691$

$R_1 = 1.81759$

$$\frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 1.81759$$

$$\frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} = 1.81759$$

$$R_1 - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 0.00000$$

$$R_1 - \frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} = 0.00000$$

$$\frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 0.00000$$

$R_2 = 0.55018$

$$\frac{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)}{(B \cdot D)} = 0.55018$$

$$R_2 - \frac{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)}{(B \cdot D)} = 0.00000$$

Descriptions.

$fg := \frac{N_2}{N_2 + N_3}$ $bg := fg \cdot N_3$ $ac := \frac{N_1 \cdot (1 - fg)}{N_1 - bg}$

$be := N_4 \cdot (1 - ac)$ $bn := \frac{be}{ac}$ $hj := \frac{bn}{bn + N_1}$

$bp := N_5 \cdot (1 - hj)$ $km := \frac{N_6 \cdot hj}{bp}$ $R_1 := \frac{N_6}{1 - km}$

$R_1 = 1.817589$

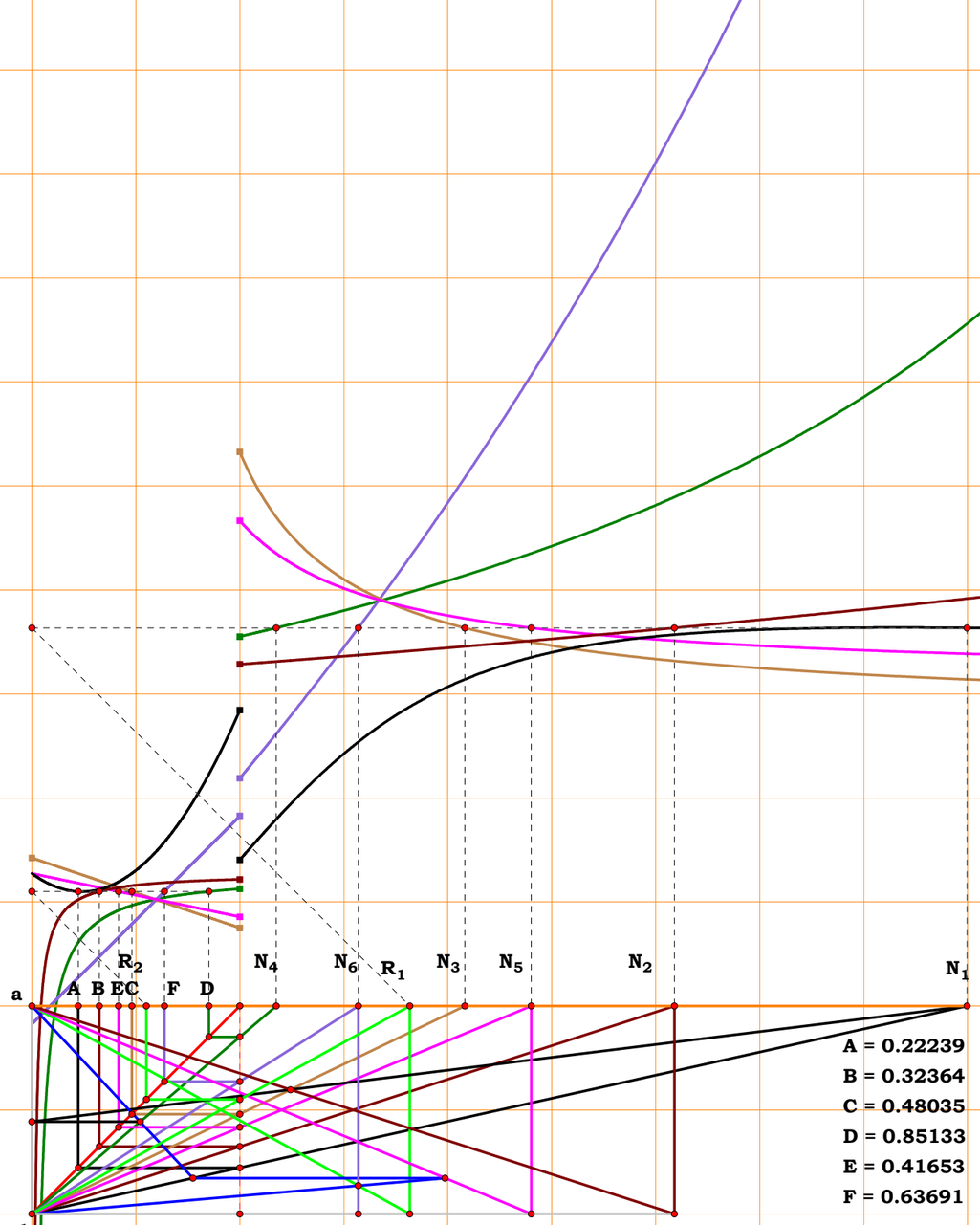
Definitions.

$$R_1 - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6 + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$

$N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$ $N_6 - \frac{1}{F} = 0$

$$R_1 - \frac{B \cdot D}{E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F} = 0$$



ab = 1.00000
N1 = 4.49660
N2 = 3.08990
N3 = 2.08183
N4 = 1.17463
N5 = 2.40079
N6 = 1.57009

A = 0.22239
B = 0.32364
C = 0.48035
D = 0.85133
E = 0.41653
F = 0.63691

$$R_1 = 1.81759$$

$$\frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 1.81759$$

$$\frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} = 1.81759$$

$$R_1 - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 0.00000$$

$$R_1 - \frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} = 0.00000$$

$$\frac{(B \cdot D)}{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)} - \frac{N_1^2 \cdot N_3 \cdot N_5 \cdot N_6}{(N_1^2 \cdot N_3 \cdot N_5 - N_1 \cdot N_2 \cdot N_4 \cdot N_6) + N_2 \cdot N_3 \cdot N_4 \cdot N_6} = 0.00000$$

$$R_2 = 0.55018$$

$$\frac{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)}{(B \cdot D)} = 0.55018$$

$$R_2 - \frac{((A^2 \cdot E - A \cdot C \cdot E) + B \cdot D \cdot F)}{(B \cdot D)} = 0.00000$$

1CST7R8

Given.

Unit. $ab := 1 \quad N_1 := 4.37187$

$N_2 := 1.75249 \quad N_3 := 1.93784$

$N_4 := 2.37383$

$$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$$

Descriptions.

$$de := \frac{N_3}{N_3 + N_4} \qquad ad := N_4 \cdot de$$

$$ac := \frac{de \cdot N_1}{N_1 - ad} \qquad R_1 := \frac{N_2}{ac}$$

$R_1 = 2.947705$

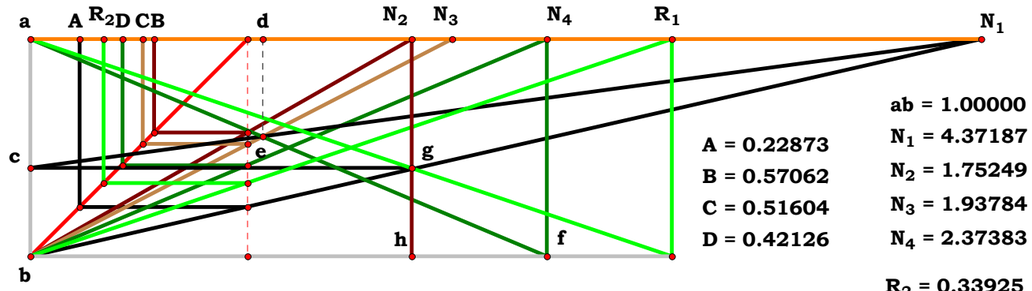
Definitions.

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0$$

$$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$$

$$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$$

$$R_1 - \frac{(C - A + D)}{B \cdot D} = 0$$



A = 0.22873
B = 0.57062
C = 0.51604
D = 0.42126

$$R_1 - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0.00000$$

$$R_1 - \frac{((C-A)+D)}{(B \cdot D)} = 0.00000$$

$$\frac{((C-A)+D)}{(B \cdot D)} - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0.00000$$

ab = 1.00000
$N_1 = 4.37187$
$N_2 = 1.75249$
$N_3 = 1.93784$
$N_4 = 2.37383$

$R_1 = 2.94770$

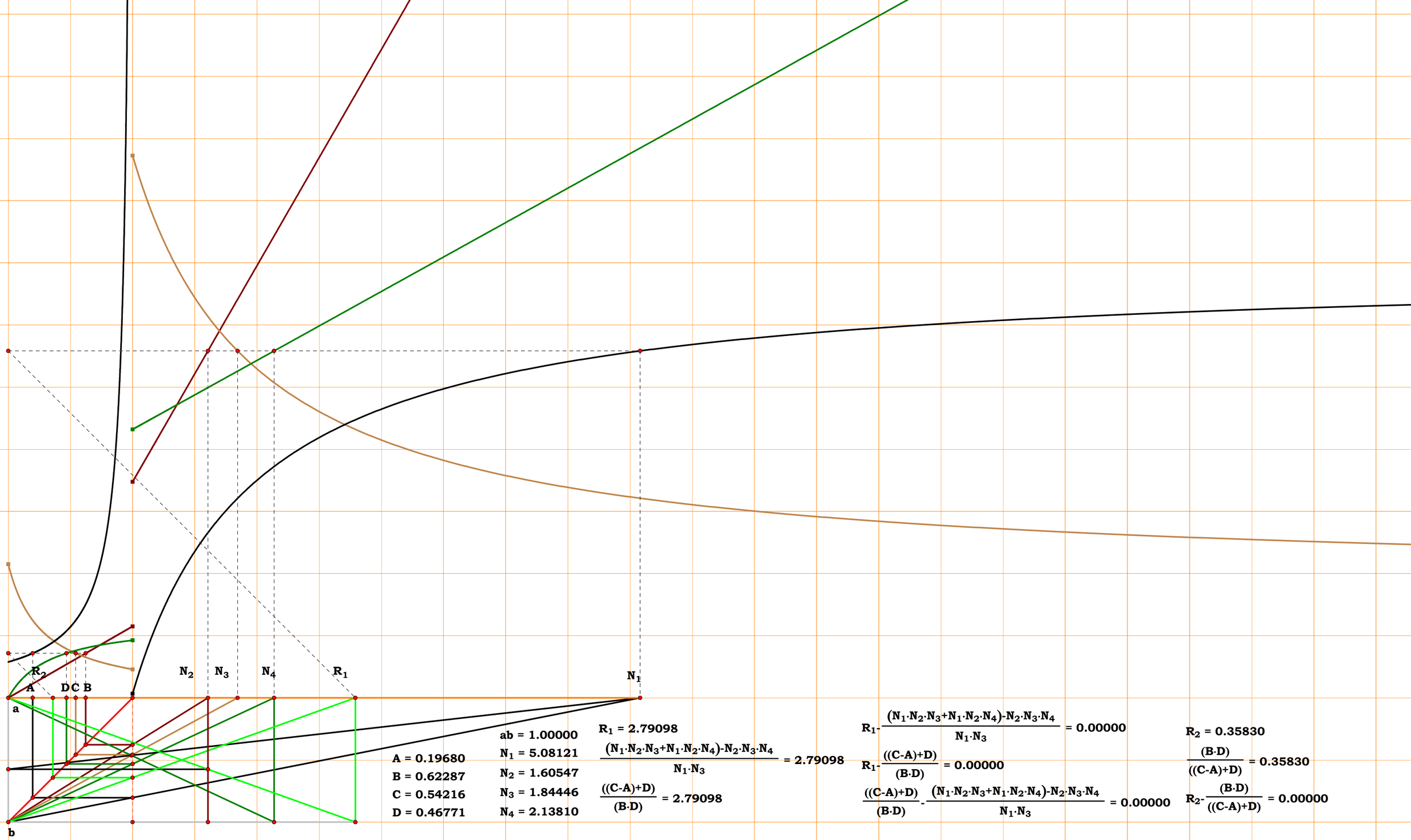
$$\frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 2.94770$$

$$\frac{((C-A)+D)}{(B \cdot D)} = 2.94770$$

$R_2 = 0.33925$

$$\frac{(B \cdot D)}{((C-A)+D)} = 0.33925$$

$$R_2 - \frac{(B \cdot D)}{((C-A)+D)} = 0.00000$$



$A = 0.19680$
$B = 0.62287$
$C = 0.54216$
$D = 0.46771$

$ab = 1.00000$
$N_1 = 5.08121$
$N_2 = 1.60547$
$N_3 = 1.84446$
$N_4 = 2.13810$

$R_1 = 2.79098$

$$\frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 2.79098$$

$$\frac{((C-A)+D)}{(B \cdot D)} = 2.79098$$

$$R_1 - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0.00000$$

$$R_1 - \frac{((C-A)+D)}{(B \cdot D)} = 0.00000$$

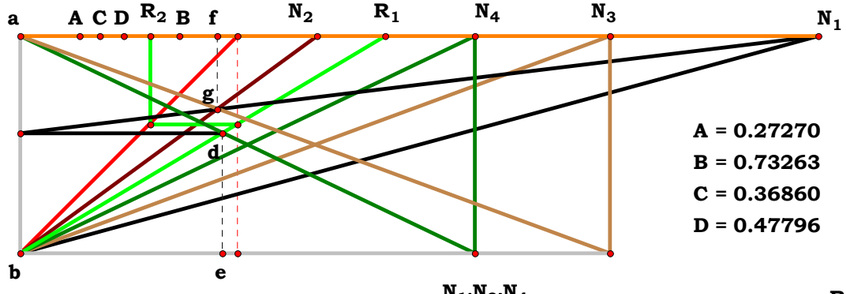
$$\frac{((C-A)+D)}{(B \cdot D)} - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_3} = 0.00000$$

$R_2 = 0.35830$

$$\frac{(B \cdot D)}{((C-A)+D)} = 0.35830$$

$$R_2 - \frac{(B \cdot D)}{((C-A)+D)} = 0.00000$$

1CST7R9



Given.

Unit. $ab := 1 \quad N_1 := 3.66705$

$N_2 := 1.36495 \quad N_3 := 2.71296 \quad N_4 := 2.09224$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$af := \frac{N_2 \cdot N_3}{N_2 + N_3} \qquad fg := \frac{af}{N_3}$

$ac := \frac{fg \cdot N_1}{N_1 - af} \qquad de := 1 - ac$

$be := N_4 \cdot ac \qquad R_1 := \frac{be}{de} \qquad R_1 = 1.676785$

Definitions.

$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0$

$N_1 - \frac{1}{A} = 0 \qquad N_2 - \frac{1}{B} = 0$

$N_3 - \frac{1}{C} = 0 \qquad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{C}{D \cdot (B - A)} = 0$

$A = 0.27270$
$B = 0.73263$
$C = 0.36860$
$D = 0.47796$

$ab = 1.00000$
$N_1 = 3.66705$
$N_2 = 1.36495$
$N_3 = 2.71296$
$N_4 = 2.09224$

$R_1 = 1.67679$

$\frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 1.67679$

$\frac{C}{(D \cdot (B-A))} = 1.67679$

$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$

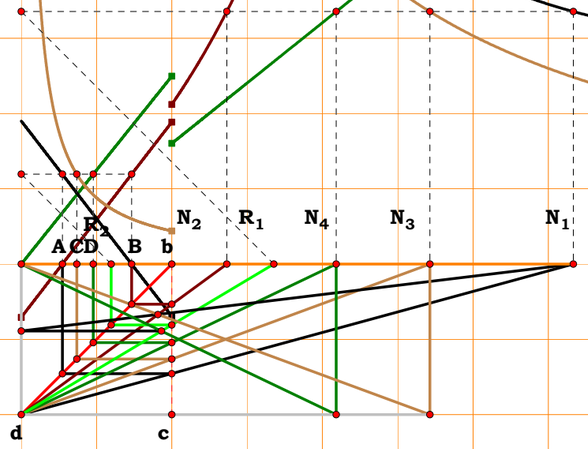
$R_1 - \frac{C}{(D \cdot (B-A))} = 0.00000$

$\frac{C}{(D \cdot (B-A))} - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$

$R_2 = 0.59638$

$\frac{(D \cdot (B-A))}{C} = 0.59638$

$R_2 - \frac{(D \cdot (B-A))}{C} = 0.00000$



$ab = 1.00000$

$A = 0.27270$
$B = 0.73263$
$C = 0.36860$
$D = 0.47796$

$N_1 = 3.66705$
$N_2 = 1.36495$
$N_3 = 2.71296$
$N_4 = 2.09224$

$R_1 = 1.67679$

$$\frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 1.67679$$

$$\frac{C}{(D \cdot (B-A))} = 1.67679$$

$$R_1 - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

$$R_1 - \frac{C}{(D \cdot (B-A))} = 0.00000$$

$$\frac{C}{(D \cdot (B-A))} - \frac{N_1 \cdot N_2 \cdot N_4}{N_1 \cdot N_3 - N_2 \cdot N_3} = 0.00000$$

$R_2 = 0.59638$

$$\frac{(D \cdot (B-A))}{C} = 0.59638$$

$$R_2 - \frac{(D \cdot (B-A))}{C} = 0.00000$$

1CST7R10

Given.

Unit. $ab := 1$

$N_1 := 3.30816 \quad N_2 := 2.26747$

$N_3 := 1.38991 \quad N_4 := 1.88380$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4}$

Descriptions.

$de := \frac{N_3}{N_3 + N_4} \quad ad := N_4 \cdot de$

$ac := \frac{de \cdot N_1}{N_1 - ad} \quad R_1 := \frac{N_2}{1 - ac}$

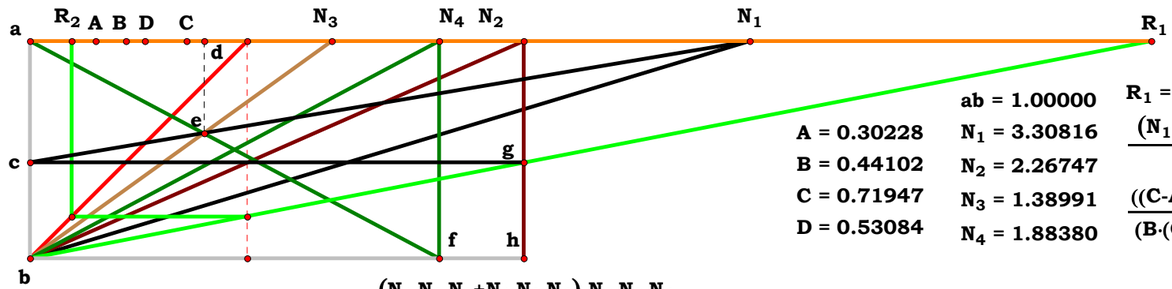
$R_1 = 5.152662$

Definitions.

$R_1 - \frac{N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4 - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0$

$R_1 - \frac{(C - A + D)}{B \cdot (C - A)} = 0$



A = 0.30228
B = 0.44102
C = 0.71947
D = 0.53084

ab = 1.00000
N_1 = 3.30816
N_2 = 2.26747
N_3 = 1.38991
N_4 = 1.88380

$R_1 = 5.15265$

$\frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 5.15265$

$\frac{((C-A)+D)}{(B \cdot (C-A))} = 5.15265$

$R_1 - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0.00000$

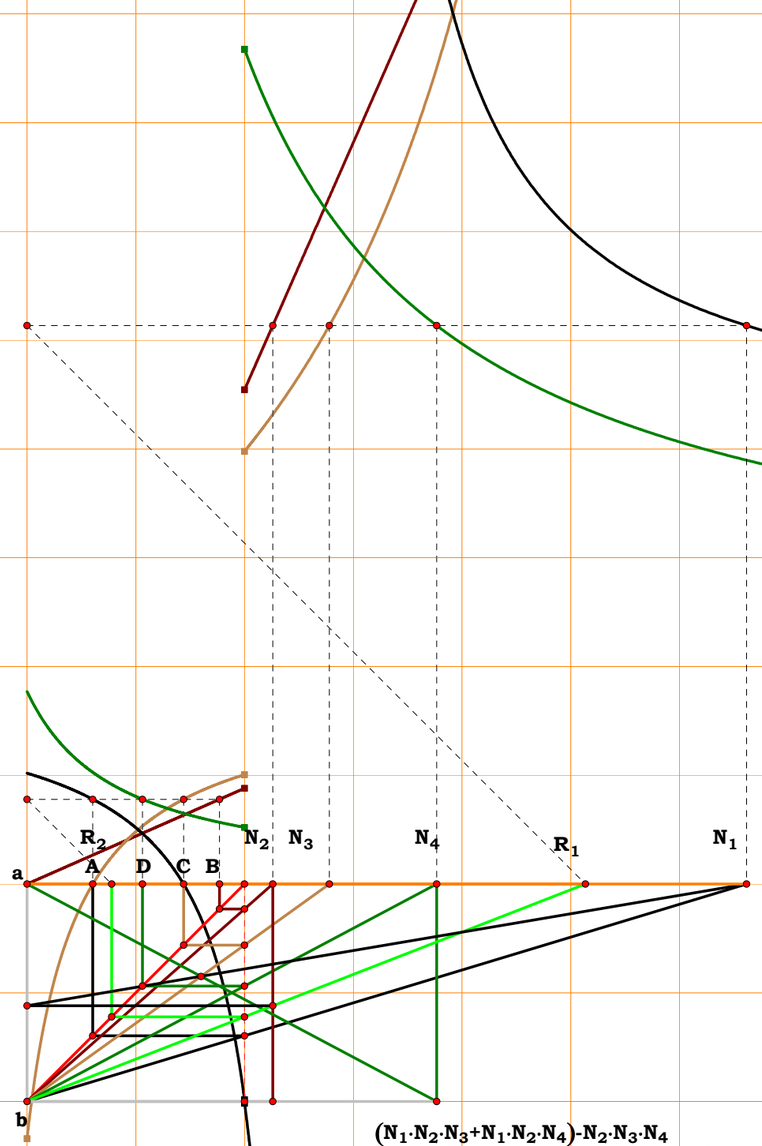
$R_1 - \frac{((C-A)+D)}{(B \cdot (C-A))} = 0.00000$

$\frac{((C-A)+D)}{(B \cdot (C-A))} - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0.00000$

$R_2 = 0.19407$

$\frac{(B \cdot (C-A))}{((C-A)+D)} = 0.19407$

$R_2 - \frac{(B \cdot (C-A))}{((C-A)+D)} = 0.00000$



$A = 0.30228$
$B = 0.88516$
$C = 0.71947$
$D = 0.53084$

$ab = 1.00000$
$N_1 = 3.30816$
$N_2 = 1.12974$
$N_3 = 1.38991$
$N_4 = 1.88380$

$R_1 = 2.56726$

$$\frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 2.56726$$

$$\frac{((C-A)+D)}{(B \cdot (C-A))} = 2.56726$$

$$R_1 - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0.00000$$

$$R_1 - \frac{((C-A)+D)}{(B \cdot (C-A))} = 0.00000$$

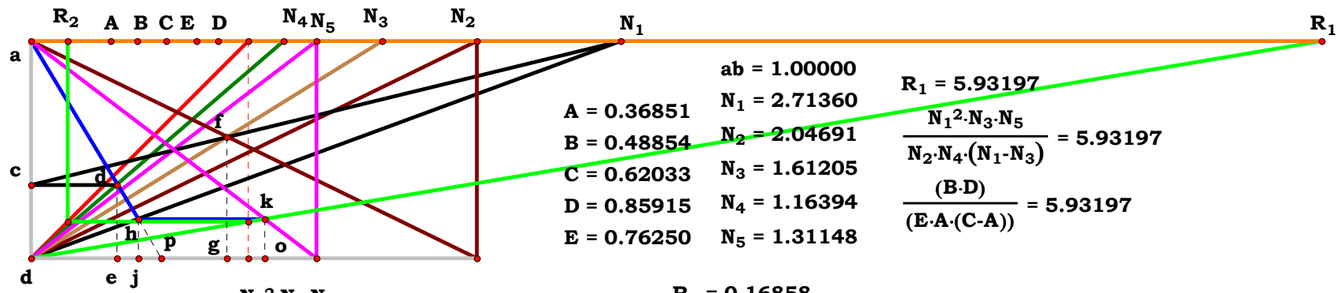
$$\frac{((C-A)+D)}{(B \cdot (C-A))} - \frac{(N_1 \cdot N_2 \cdot N_3 + N_1 \cdot N_2 \cdot N_4) - N_2 \cdot N_3 \cdot N_4}{N_1 \cdot N_4 - N_3 \cdot N_4} = 0.00000$$

$R_2 = 0.38952$

$$\frac{(B \cdot (C-A))}{((C-A)+D)} = 0.38952$$

$$R_2 - \frac{(B \cdot (C-A))}{((C-A)+D)} = 0.00000$$

1CST7R11



Given.

Unit. $ab := 1$ $N_1 := 2.71360$

$N_2 := 2.04691$ $N_3 := 1.61205$

$N_4 := 1.16394$ $N_5 := 1.31148$

$A := \frac{1}{N_1}$ $B := \frac{1}{N_2}$ $C := \frac{1}{N_3}$ $D := \frac{1}{N_4}$ $E := \frac{1}{N_5}$

Descriptions.

$fg := \frac{N_2}{N_2 + N_3}$ $bg := N_3 \cdot fg$ $ac := \frac{N_1 \cdot (1 - fg)}{N_1 - bg}$

$be := N_4 \cdot (1 - ac)$ $bp := \frac{be}{ac}$ $hj := \frac{bp}{bp + N_1}$

$bo := N_5 \cdot (1 - hj)$ $R_1 := \frac{bo}{hj}$

$R_1 = 5.931961$

Definitions.

$$R_1 - \frac{N_1^{\,2} \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0$$

$N_1 - \frac{1}{A} = 0$ $N_2 - \frac{1}{B} = 0$ $N_3 - \frac{1}{C} = 0$ $N_4 - \frac{1}{D} = 0$ $N_5 - \frac{1}{E} = 0$

$$R_1 - \frac{B \cdot D}{E \cdot [A \cdot (C - A)]} = 0$$

$A = 0.36851$ $B = 0.48854$ $C = 0.62033$ $D = 0.85915$ $E = 0.76250$

$ab = 1.00000$ $N_1 = 2.71360$ $N_2 = 2.04691$ $N_3 = 1.61205$ $N_4 = 1.16394$ $N_5 = 1.31148$

$R_1 = 5.93197$

$\frac{N_1^{\,2} \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 5.93197$

$\frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} = 5.93197$

$R_1 - \frac{N_1^{\,2} \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$

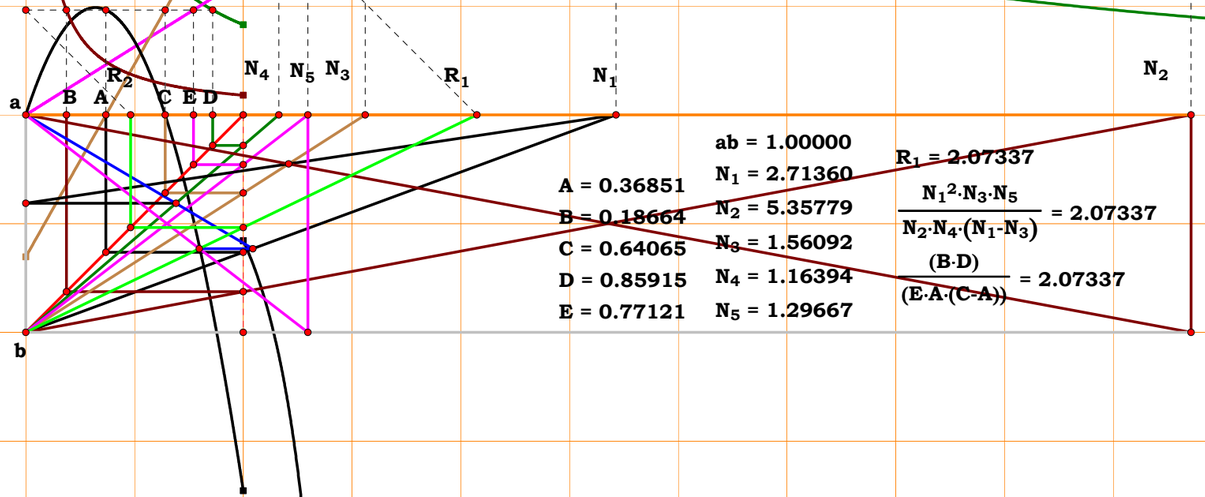
$R_1 - \frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} = 0.00000$

$\frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} - \frac{N_1^{\,2} \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$

$R_2 = 0.16858$

$\frac{(E \cdot A \cdot (C - A))}{(B \cdot D)} = 0.16858$

$R_2 - \frac{(E \cdot A \cdot (C - A))}{(B \cdot D)} = 0.00000$



$ab = 1.00000$

$A = 0.36851$ $N_1 = 2.71360$

$B = 0.18664$ $N_2 = 5.35779$

$C = 0.64065$ $N_3 = 1.56092$

$D = 0.85915$ $N_4 = 1.16394$

$E = 0.77121$ $N_5 = 1.29667$

$R_1 = 2.07337$

$$\frac{N_1^2 \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 2.07337$$

$$\frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} = 2.07337$$

$$R_1 - \frac{N_1^2 \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$$

$$R_1 - \frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} = 0.00000$$

$$\frac{(B \cdot D)}{(E \cdot A \cdot (C - A))} - \frac{N_1^2 \cdot N_3 \cdot N_5}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$$

$R_2 = 0.48231$

$$\frac{(E \cdot A \cdot (C - A))}{(B \cdot D)} = 0.48231$$

$$R_2 - \frac{(E \cdot A \cdot (C - A))}{(B \cdot D)} = 0.00000$$

1CST7R12

Given.

Unit. $ab := 1 \quad N_1 := 2.81836$

$N_2 := 3.90075 \quad N_3 := 1.99938$

$N_4 := 1.57843 \quad N_5 := 1.21882$

$A := \frac{1}{N_1} \quad B := \frac{1}{N_2} \quad C := \frac{1}{N_3} \quad D := \frac{1}{N_4} \quad E := \frac{1}{N_5}$

Descriptions.

$fg := \frac{N_2}{N_2 + N_3} \quad bg := fg \cdot N_3 \quad ac := \frac{N_1 \cdot (1 - fg)}{N_1 - bg}$

$be := N_4 \cdot (1 - ac) \quad bo := \frac{be}{ac} \quad hj := \frac{bo}{bo + N_1}$

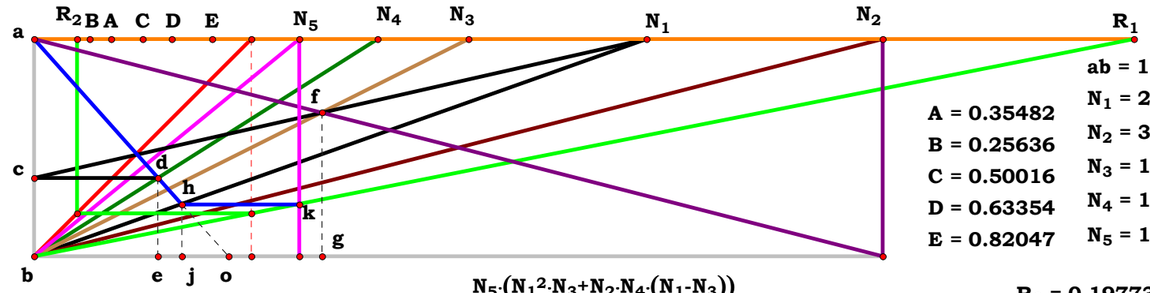
$R_1 := \frac{N_5}{hj} \quad R_1 = 5.057493$

Definitions.

$$R_1 - \frac{N_5 \cdot \left[N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3) \right]}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0$$

$N_1 - \frac{1}{A} = 0 \quad N_2 - \frac{1}{B} = 0 \quad N_3 - \frac{1}{C} = 0 \quad N_4 - \frac{1}{D} = 0 \quad N_5 - \frac{1}{E} = 0$

$$R_1 - \frac{\left(A^2 - C \cdot A - B \cdot D\right)}{A \cdot E \cdot (A - C)} = 0$$



A = 0.35482
B = 0.25636
C = 0.50016
D = 0.63354
E = 0.82047

ab = 1.00000
N_1 = 2.81836
N_2 = 3.90075
N_3 = 1.99938
N_4 = 1.57843
N_5 = 1.21882

$R_1 = 5.05749$

$$\frac{N_5 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 5.05749$$

$$\frac{(A^2 - A \cdot C - B \cdot D)}{(A \cdot E \cdot (A - C))} = 5.05749$$

$$R_1 - \frac{N_5 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$$

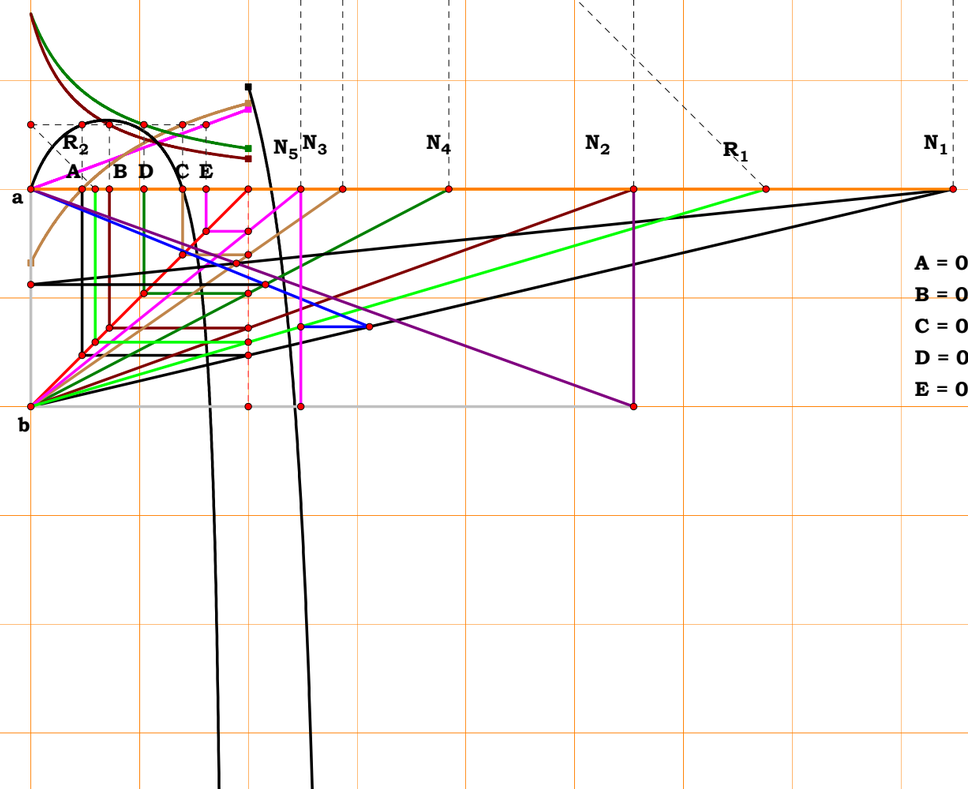
$$R_1 - \frac{(A^2 - A \cdot C - B \cdot D)}{(A \cdot E \cdot (A - C))} = 0.00000$$

$$\frac{(A^2 - A \cdot C - B \cdot D)}{(A \cdot E \cdot (A - C))} - \frac{N_5 \cdot (N_1^{\,2} \cdot N_3 + N_2 \cdot N_4 \cdot (N_1 - N_3))}{N_2 \cdot N_4 \cdot (N_1 - N_3)} = 0.00000$$

$R_2 = 0.19773$

$$\frac{(A \cdot E \cdot (A - C))}{(A^2 - A \cdot C - B \cdot D)} = 0.19773$$

$$R_2 - \frac{(A \cdot E \cdot (A - C))}{(A^2 - A \cdot C - B \cdot D)} = 0.00000$$



ab = 1.00000

N_1 = 4.24089

N_2 = 2.77113

N_3 = 1.43359

N_4 = 1.92187

N_5 = 1.24077

A = 0.23580

B = 0.36086

C = 0.69755

D = 0.52033

E = 0.80595

R_1 = 3.38051

$$\frac{N_5\cdot(N_1^2\cdot N_3+N_2\cdot N_4\cdot(N_1-N_3))}{N_2\cdot N_4\cdot(N_1-N_3)} = 3.38051$$

$$\frac{(A^2-A\cdot C-B\cdot D)}{(A\cdot E\cdot(A-C))} = 3.38051$$

R_2 = 0.29581

$$\frac{(A\cdot E\cdot(A-C))}{(A^2-A\cdot C-B\cdot D)} = 0.29581$$

$$R_2-\frac{(A\cdot E\cdot(A-C))}{(A^2-A\cdot C-B\cdot D)} = 0.00000$$

$$R_1-\frac{N_5\cdot(N_1^2\cdot N_3+N_2\cdot N_4\cdot(N_1-N_3))}{N_2\cdot N_4\cdot(N_1-N_3)} = 0.00000$$

$$R_1-\frac{(A^2-A\cdot C-B\cdot D)}{(A\cdot E\cdot(A-C))} = 0.00000$$

$$\frac{(A^2-A\cdot C-B\cdot D)}{(A\cdot E\cdot(A-C))}-\frac{N_5\cdot(N_1^2\cdot N_3+N_2\cdot N_4\cdot(N_1-N_3))}{N_2\cdot N_4\cdot(N_1-N_3)} = 0.00000$$